

Appendix H

Groundwater Sampling Purge Sheets

**Northwest Boundary Area RCRA Facility Investigation
Fort Buchanan, Puerto Rico**

WELL PURGING AND SAMPLING RECORD

WELL ID MW-01 SAMPLE NO. 6-03-07-MW-01
WELL/SITE DESCRIPTION _____

DATE 1/10/07 TIME 1325 AIR TEMP. 80°F

WELL DEPTH 32 ft CASING HEIGHT flush ft
WATER DEPTH 17.82 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 32 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 10 (gal) (L)

Date	Time	Volume Removed	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
		Unit: <u>L</u>								<u>4/min</u>
1/10/07	1342	—	6.67	0.868	26.80	-9.8	154.0	1.32	18.02	1
	1346	4	6.69	0.869	26.84	-4.8	122.1	1.18	18.04	1
	1350	8	6.69	0.867	26.83	-2.5	104.0	1.12	18.04	1
	1354	12	6.70	0.869	26.93	0.6	70.5	1.13	18.05	1
	1358	16	6.70	0.871	27.07	3.9	49.6	1.17	18.05	1
	1402	20	6.70	0.871	27.12	7.3	31.4	1.16	18.05	1
	1406	24	6.70	0.869	27.01	10.2	24.2	1.09	18.05	1
	1410	28	6.70	0.868	27.00	12.7	16.4	1.08	18.05	1
	1414	32	6.70	0.867	26.97	15.0	9.1	1.06	18.05	1

COMMENTS Sample Time - 1420. Good producer.

SIGNATURE [Signature]



WELL ID MW-02 SAMPLE NO. G-03-07-MW-02
WELL/SITE DESCRIPTION _____

DATE 1/10/07 TIME 1335 AIR TEMP. 80°F

WELL DEPTH 40 ft CASING HEIGHT flush mt ft
WATER DEPTH 23.44 * ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 26 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 36 (gal) (L)

[illegible]

COMMENTS

SIGNATURE

William R. Hargis

WELL PURGING AND SAMPLING RECORD

WELL ID FEAT BUC119-19-1 SWAY-3 MW3 SAMPLE NO. _____

WELL/SITE DESCRIPTION ALONG ROADWAY FENCE

DATE 9 / JAN / 07 TIME 0930 AIR TEMP. _____

WELL DEPTH 34 ft CASING HEIGHT 61.11 ft
 WATER DEPTH 26.90 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. 8" in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE 2.21 1/2 (gpm) (LPM)
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (X) No PUMP TIME 24 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 42 (gal) (L)

Date	Time	Volume Removed Unit: L	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
1/9/07	0928	2	6.62	0.881	27.3	-4.8	61.6	1.97	27.30	2 1/2
	0930	6	6.63	0.880	27.76	-2.1	54	1.97	27.30	2 1/2
	0933	12	6.62	0.884	27.2	6.4	41	1.85	27.30	2 1/2
	0936	18	6.62	0.886	27.3	20.1	19	1.80	27.30	2 1/2
	0939	24	6.62	0.890	27.34	16.1	13.6	1.70	27.30	2 1/2
	0942	30	6.62	0.890	27.3	18.4	5.7	1.75	27.30	2
	0945	36	6.62	0.890	27.3	18.2	5.0	1.69	27.32	2
	0948	42	6.62	0.892	27.3	19.0	4.8	1.65	27.30	2
	0950 sample									

COMMENTS _____

SIGNATURE RTM

WELL PURGING AND SAMPLING RECORD

WELL ID MW-03B SAMPLE NO. 6-03-06-MW-03B
WELL/SITE DESCRIPTION _____

DATE 1/9/07 TIME 9:00 AM AIR TEMP. ~80°F

WELL DEPTH 57.6¹¹⁹ 55.0 ft CASING HEIGHT Plush ft
WATER DEPTH 19.09 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~25 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED Agon 28 (gal) (L)

Date	Time	Volume Removed	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water	Pump Rate
		Unit: 2 gal +		ns/cm	°C		NTU	mg/L	from TOC	L/min
1/9/07	9:06	—	6.93	0.764	27.18	-159.8	75.0	3.13	21.95	1
	9:10	4	6.91	0.765	27.20	-155.2	39.7	1.37	22.72	1
	9:14	8	6.91	0.764	27.19	-154.6	14.6	1.16	23.20	1
	9:18	12	6.90	0.765	27.20	-153.5	8.2	1.02	23.50	1
✓	9:22	16	6.90	0.764	27.19	-153.7	7.1	0.95	23.51	1
	9:26	20	6.90	0.764	27.19	-151.9	5.7	0.88	23.95	1

COMMENTS Sample Time - 930

SIGNATURE ing M

WELL PURGING AND SAMPLING RECORD

WELL ID FT. Buckham • MW-4A SAMPLE NO. _____

WELL/SITE DESCRIPTION _____

DATE 1 / 9 / 07 TIME 1030 AIR TEMP. _____

WELL DEPTH 42.95 ft CASING HEIGHT flush ft
 WATER DEPTH 31.94 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE 2 → 1 (gpm) (LPM)
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (X) No PUMP TIME 25 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 40 (gal) (L)

Date	Time	Volume Removed Unit: L	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
11/9/07	1040	2	8.33	0.575	27.8	70	7100	1.38	32.32	2
	1043	8	7.87	0.622	28.01	85	1060	0.78	32.34	2
	1046	14	7.28	0.673	28.1	95.9	280	0.98	32.34	2
	1049	20	7.03	0.711	28.2	99.8	131	1.10	32.34	2
	1053	26	7.00	0.717	28.2	100.1	109	1.13	32.34	2
	1056	32	6.94	0.729	28.2	102	89	1.13	32.34	2
	1059	36	6.94	0.730	28.1	102	80	1.13	32.34	2
	1102	40	6.96	0.770	28.1	102	85	1.10	32.34	2

COMMENTS SAMPLE 1105

SIGNATURE _____



WELL ID MW-04B SAMPLE NO. G-03-06-MW-04B
WELL/SITE DESCRIPTION _____

DATE 1 / 9 / 07 TIME 1015 AIR TEMP. ~80° F

WELL DEPTH 66.0 ft CASING HEIGHT flush ft
WATER DEPTH 22.88 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 3 → 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 18 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~30 (gal) (L)

[illegible]

COMMENTS

Goat producer, closed quickly. No odor

Sample Time = 1050

SIGNATURE

William R. Gray



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID RT Buckman MW-5A SAMPLE NO. G-03-06-MW-05A

WELL/SITE DESCRIPTION _____

DATE 1/9/07 TIME 1215 AIR TEMP. 80°F +

WELL DEPTH 40 ft CASING HEIGHT flush ft
 WATER DEPTH 32.66 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE _____ (gpm) (LPM)
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (X) No PUMP TIME 1270 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 10 (gal) (L)

3 gal +

Date	Time	Volume Removed Unit:	pH	Cond. mS/cm	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate gpm
1/9/07	1238	—	6.79	0.742	30.10	60.2	106.1	3.55	36.40	1
	1242	4	6.79	0.742	30.06	73.3	59.9	3.51	36.40	1
	1246	8	6.79	0.743	30.09	82.6	45.0	3.49	36.40	1
	1250	12	6.79	0.743	30.10	85.2	32.5	3.48	36.40	1
	1254	16	6.79	0.742	30.07	95.0	21.4	3.48	36.40	1
	1258	20	6.79	0.741	30.00	100.9	18.1	3.47	36.40	1
	1302	24	6.79	0.741	30.01	105.7	15.9	3.47	36.40	1
	1306	28	6.79	0.741	29.98	108.5	14.0	3.46	36.40	1

COMMENTS Sample Time - 1315

SIGNATURE

[Signature]



WELL ID MW-05B SAMPLE NO. G-03-06-MW-05B
WELL/SITE DESCRIPTION _____

DATE 1/9/07 TIME 1145 AIR TEMP. 280°F

WELL DEPTH 66 ft CASING HEIGHT flush ft
WATER DEPTH 27.29 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 2 → 1 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ≈ 36 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 8 (gal) (L)

[illegible]

Sample Time : 1230 4 DDP collected
(07-JA-09-DDP)

SIGNATURE



WELL ID FL Backman MW-6A SAMPLE NO. G-03-07-MW-06A
WELL/SITE DESCRIPTION _____

DATE 1/9/07 TIME 1430 AIR TEMP. 80°F

WELL DEPTH 18.0 ft CASING HEIGHT flush ft
WATER DEPTH 3.60 ft ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 2 → 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~ 50 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 11 (gal) (L)

[illegible]

COMMENTS Sample Time - 1515

by *Mr. [Signature]*



WELL ID MW-06B SAMPLE NO. 6-03-07-MW-06B
WELL/SITE DESCRIPTION _____ MS
MSD

DATE 1, 9, 07 TIME 1405 AIR TEMP. 90°F

WELL DEPTH 50 ft CASING HEIGHT flush mt ft
WATER DEPTH 12.16 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 2 → 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ≈ 32 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ≈ 40 (gal) (L)

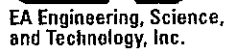
[illegible]

COMMENTS

COMMENTS Sample Time = 1500 MS/MSD collected

SIGNATURE

SIGNATURE William R. Hines



WELL ID MW-07A SAMPLE NO. G-03-07-MW-07A
WELL/SITE DESCRIPTION _____

DATE 1/10/07 TIME 815 AIR TEMP. 80°F

WELL DEPTH 36.0 ft CASING HEIGHT flush ft
WATER DEPTH 8.45 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~40 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~48 (gal) (L)

[illegible]

COMMENTS Sample Time = 9:10 * 07-3A-10-DP collected *

SIGNATURE William Retany

WELL PURGING AND SAMPLING RECORD

WELL ID MW-078 SAMPLE NO. G-03-07-MW-078
WELL/SITE DESCRIPTION _____

DATE 1/10/07 TIME 815 AIR TEMP. 80° F

WELL DEPTH 73 ft + 8 inches ft CASING HEIGHT Flush ft
WATER DEPTH 4.74 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 2 → 1 (gpm) (CPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ≈ 25 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 2 10 (gal) (L)

Date	Time	Volume Removed Unit: L	pH	Cond. mS/cm	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate L/min
1/10/07	8:40	—	7.00	1.511	26.14	32.2	27.1	1.42	4.87	1
	8:44	4	6.98	1.482	26.22	21.1	18.2	1.29	4.91	1
	8:48	8	6.97	1.475	26.28	14.8	17.5	1.23	4.91	1
	8:52	12	6.97	1.462	26.25	13.2	12.8	1.18	4.91	1
	8:56	16	6.96	1.439	26.23	-2.7	8.1	1.10	4.91	1
	9:00	20	6.96	1.434	26.19	-7.7	6.9	1.07	4.91	1
✓	9:04	24	6.96	1.431	26.19	-9.7	6.2	1.05	4.91	1

COMMENTS Sample Time 9:10 good producer

SIGNATURE [Signature]



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW-08A SAMPLE NO. 6-03-07-MW-08A
WELL/SITE DESCRIPTION _____

DATE 1/10/07 TIME 1025 AIR TEMP. 80°F

WELL DEPTH ≈ 30 ft CASING HEIGHT Plush ft
WATER DEPTH 21.43 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.3 - 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? ☒ Yes () No PUMP TIME ≈ 22 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? ☒ Yes () No TOTAL VOL. REMOVED ≈ 21 (gal) (L)

Date	Time	Volume Removed Unit:	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate L/min
1/10/07	1042	—	6.96	0.562	30.57	-138	1/62	0.92	26.26	1.0
	1046	4.0	6.94	0.572	31.11	-152	1/10	0.70	26.98	0.5
	1050	6.0	6.92	0.572	31.06	-147	1/600	0.60	27.13	0.3
	1054	7.2	6.92	0.577	31.11	-145	1/200	0.54	27.55	0.3
	1058	8.4	6.91	0.563	30.99	-150	1/1000	0.50	28.98	0.3
	1102	9.6	6.90	0.572	30.67	-146	1/1000	0.48	—	0.3
			Purged Dry Allow to recharge, will Sample							

COMMENTS

Sample time = 1120

SIGNATURE

William R. Hansen



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW-08B SAMPLE NO. G-03-07-MW-08B
WELL/SITE DESCRIPTION _____

DATE 1/10/07 TIME 1025 AIR TEMP. 80°F +

WELL DEPTH 520 ft CASING HEIGHT flush ft
WATER DEPTH 15.12 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 2 → 1 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes ☒ No PUMP TIME ~ 32 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes ☒ No TOTAL VOL. REMOVED ~ 11 (gal) (L)

Date	Time	Volume Removed Unit: <u>L</u>	pH	Cond. <u>ms/cm</u>	Temp. <u>°C</u>	ORP	Turb. <u>NTU</u>	DO <u>mg/L</u>	Depth to Water from TOC	Pump Rate <u>L/min</u>
<u>1/10/07</u>	<u>1046</u>	<u>—</u>	<u>6.99</u>	<u>0.752</u>	<u>29.06</u>	<u>16.7</u>	<u>54.7</u>	<u>1.12</u>	<u>15.39</u>	<u>1</u>
	<u>1050</u>	<u>4</u>	<u>6.97</u>	<u>0.757</u>	<u>29.16</u>	<u>4.8</u>	<u>39.9</u>	<u>1.00</u>	<u>15.39</u>	<u>1</u>
	<u>1054</u>	<u>8</u>	<u>6.95</u>	<u>0.760</u>	<u>29.28</u>	<u>-2.2</u>	<u>21.7</u>	<u>0.93</u>	<u>15.39</u>	<u>1</u>
	<u>1058</u>	<u>12</u>	<u>6.95</u>	<u>0.762</u>	<u>29.34</u>	<u>-6.4</u>	<u>24.9</u>	<u>0.93</u>	<u>15.39</u>	<u>1</u>
	<u>1102</u>	<u>16</u>	<u>6.94</u>	<u>0.764</u>	<u>29.36</u>	<u>-14.2</u>	<u>19.4</u>	<u>0.92</u>	<u>15.39</u>	<u>1</u>
	<u>1106</u>	<u>20</u>	<u>6.94</u>	<u>0.763</u>	<u>29.36</u>	<u>-22.0</u>	<u>18.0</u>	<u>0.89</u>	<u>15.39</u>	<u>1</u>
	<u>1110</u>	<u>24</u>	<u>6.94</u>	<u>0.765</u>	<u>29.41</u>	<u>-26.3</u>	<u>16.0</u>	<u>0.91</u>	<u>15.39</u>	<u>1</u>
	<u>1114</u>	<u>28</u>	<u>6.94</u>	<u>0.766</u>	<u>29.49</u>	<u>-28.9</u>	<u>18.1</u>	<u>0.91</u>	<u>15.39</u>	<u>1</u>

COMMENTS Sample Time 1125

SIGNATURE

by M. H.



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID Mw-1 SAMPLE NO. G-03-07-MW-1

QA/QC SAMPLES COLLECTED/DESIGNATION: _____

WELL/SITE DESCRIPTION: flush out, bituminous pavement, along
Perimeter Road

DATE 06/12/07 TIME 1430 AIR TEMP. ~90°F

Sunny / Humid

WELL DEPTH 31.88 ft CASING HEIGHT Flush ft
WATER DEPTH 18.0 ft WELL DIAMETER 2" in
WATER COL. HEIGHT 13.88 ft SANDPACK DIAM. _____ in
PUMP INTAKE DEPTH _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 35 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 35 (gal) (L)

Date	Time	Volume Removed Unit:	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate / LPM
06/12/07	1440	0	6.28	0.893	27.79	137.8	876	2.02	18.0	1.2
	1445	5	5.80	0.886	27.26	142.9	784	0.77	18.20	1
	1450	10	5.65	0.881	27.14	140.0	73.5	0.40	18.27	1
	1455	15	5.70	0.879	27.02	140.2	35.9	0.30	18.34	1
	1500	20	5.78	0.879	27.12	124.8	16.3	0.30	18.28	1
	1505	25	6.05	0.873	27.12	121.5	16.0	0.27	18.28	1
	1510	30	6.01	0.876	27.09	123.7	16.1	0.30	18.28	1
06/12/07	1515	35	5.98	0.869	27.10	123.0	15.9	0.49	18.28	1.0

COMMENTS Collected sample @ 1518.
Well Good / Stable (G-03-07-MW-01)

SIGNATURE AM Lmu



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW02 SAMPLE NO. G-03-07-MW-02
WELL/SITE DESCRIPTION _____

DATE 6/13/07 TIME 8:00 AIR TEMP. 80°F +

WELL DEPTH 39.32 ft CASING HEIGHT Flush ft
WATER DEPTH 20.87 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes ☒ No PUMP TIME ~30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes ☒ No TOTAL VOL. REMOVED ~7 (gal) (L)

Date	Time	Volume Removed	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water	Pump Rate
		Unit: <u>L</u>		<u>ns/cm</u>	<u>°C</u>		<u>NTU</u>	<u>mg/L</u>	from TOC	<u>L/min</u>
6/13	820	5gal	Recalibrated	452	±	response	DO probe	—		
	912	—	7.08	0.716	28.38	195.7	34.3	0.70	22.31	1
	916	4	6.66	0.713	28.50	192.0	15.8	0.44	22.36	1
	920	8	6.36	0.714	28.59	190.9	9.27	0.39	22.69	1
	924	12	6.00	0.710	28.40	186.3	6.78	0.34	22.69	1
	928	16	5.76	0.713	28.70	187.6	3.51	0.29	22.64	1
	932	20	5.74	0.715	28.73	187.2	3.07	0.28	22.63	1
	936	24	5.73	0.714	28.72	186.7	2.08	0.30	22.63	1

COMMENTS Collected sample at 940 Collect field dup. #3
as well.

SIGNATURE

[Handwritten Signature]



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW03A SAMPLE NO. G-03-07-MW-03A

WELL/SITE DESCRIPTION _____

DATE 6/12/07 TIME 1550 AIR TEMP. 80°F +

WELL DEPTH 32.19 ft CASING HEIGHT Plush ft
WATER DEPTH 27.43 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 35 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 10 (gal) (L)

Date	Time	Volume Removed	pH	Cond. mS/cm	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate
		Unit: <u>gal</u>								<u>L/min</u>
6/12/07	1600	<u>1</u>	8.64	0.806	28.01	826.3	2020	0.31	27.51	1
	1604	<u>4</u>	8.64	0.792	27.47	818.8	413	0.18	27.52	1
	1608	<u>8</u>	7.96	0.793	27.59	851.3	109.8	0.15	27.51	1
	1612	<u>12</u>	7.74	0.796	27.78	852.0	115.1	0.12	27.58	1
	1616	<u>16</u>	7.87	0.791	27.44	854.2	38.2	0.09	27.58	1
	1620	<u>20</u>	7.80	0.787	27.31	871.5	8.55	0.08	27.58	1
	1624	<u>24</u>	7.71	0.788	27.41	881.3	6.63	0.09	27.52	1
	1628	<u>28</u>	7.70	0.789	27.40	884.1	6.50	0.09	27.52	1
	1632	<u>32</u>	7.71	0.789	27.41	881.4	3.21	0.09	27.52	1

COMMENTS Collected sample at 1635. Good/ok
produces.

SIGNATURE

Hy H



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW 03B SAMPLE NO. 6-03-07-MW-03B

WELL/SITE DESCRIPTION _____

DATE 6/12/07 TIME 1400 AIR TEMP. 80°F +

WELL DEPTH 53.18 ft CASING HEIGHT Phasi ft
WATER DEPTH 15.00 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 48 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 12.5 (gal) (L)
1 gal +

Date	Time	Volume Removed	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
		Unit: L								
6/12/07	1432	—	10.94	0.809	27.69	343.4	72.2	0.38	18.95	1
	1440	8	10.23	0.812	27.92	258.1		0.24		1
		stopped readings & calibrated ysr								1
	1454	22	7.49	0.669	28.85	601.3	13.1	0.44	18.81	1
V	1458	26	8.53	0.655	28.06	452.9	1.53	0.11	19.20	1
	1502	30	8.76	0.652	27.93	405.4	3.00	0.19	19.20	1
	1506	34	8.90	0.644	27.60	376.4	2.97	0.13	20.87	1
	1510	38	8.86	0.644	27.58	368.7	3.25	0.12	21.10	1
	1514	42	8.83	0.645	27.61	369.1	2.97	0.12	21.12	1
	1518	46	8.85	0.644	27.61	368.1	4.05	0.12	21.12	1

COMMENTS Sampled at 1520. Good production.

SIGNATURE

by M. J. [Signature]



WELL ID MW-04A SAMPLE NO. 6-03-07-MW-04A
WELL/SITE DESCRIPTION _____

DATE 6/12/07 TIME 1515 AIR TEMP. 85°F

WELL DEPTH 41.23 ft CASING HEIGHT flush ft
WATER DEPTH 32.67 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~~228~~ (gal) (L)
2 gal ≈ 36

[illegible]

COMMENTS All good/stable. Slight petr. odor. Sample time: ~~1555~~ 1600

SIGNATURE

William H. H. H.



WELL ID MW-0415 SAMPLE NO. 6-03-07-MW-0415
WELL/SITE DESCRIPTION _____

DATE 6/12/07 TIME 1415 AIR TEMP. 83° F

WELL DEPTH 63.4 ft CASING HEIGHT flush ft
WATER DEPTH 18.95 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 25 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 28 (gal) (L)

[illegible]

COMMENTS

All good/stable. Slight petroleum odor. Sample Time = 1500

SIGNATURE



WELL ID MW-5A SAMPLE NO. 6-03-07-MW-5A

QA/QC SAMPLES COLLECTED/DESIGNATION: _____
WELL/SITE DESCRIPTION: Flush mt, bituminous pavement -
along perimeter Rd.

DATE 06/13/07 TIME 0930 AIR TEMP. 290°F
Sunny/humid

EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)

PUMP RATE _____ 0.5 _____ (gpm) (LPM)

PUMP TIME _____ min

WELL WENT DRY? () Yes (✓) No PUMP TIME _____ 30 _____ min

VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min

PURGE AGAIN? () Yes (✓) No TOTAL VOL. REMOVED _____ 15 _____ (gal) (L)

[illegible]

COMMENTS well grad/stable. Turbidity stabilized in
the lower 30s. Collected sample @ 1018 (G-03-07-mw5A).

SIGNATURE Ann M. M. M.



WELL ID MW-5B SAMPLE NO. G-03-02-MW-5B

QA/QC SAMPLES COLLECTED/DESCRIPTION:
WELL/SITE DESCRIPTION: Flush mt in bituminous pavement along
Perimeter Rd.

DATE 06 / 13 / 07 TIME 1038 AIR TEMP. ~ 90°F
Sunny / Humid

WELL DEPTH 64.58 ft CASING HEIGHT Flush ft
WATER DEPTH 23.76 ft WELL DIAMETER 2" in
WATER COL. HEIGHT 40.82 ft SANDPACK DIAM. _____ in
PUMP INTAKE DEPTH _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1 LPM (gpm) (LPM)
PUMP TIME 25 min min
WELL WENT DRY? () Yes (X) No PUMP TIME 25 min. min
VOL. REMOVED 25 + sample (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 25 + sample (gal) (L)

[illegible]

COMMENTS Well Gravel/Stone. Collected sample @
1105 (G-03-07-MW5B).

SIGNATURE John J. Man.



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID rw06A SAMPLE NO. G-03-07-mw-064

WELL/SITE DESCRIPTION _____

DATE 06/13/07 TIME 1100 AIR TEMP. 80°F +

WELL DEPTH 17.41 ft CASING HEIGHT Push ft
 WATER DEPTH 5.06 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE 1.0 (gpm) (LPM)
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (X) No PUMP TIME 22 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 6 (gal) (L)

Date	Time	Volume Removed	pH	Cond. ns/cm	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate
		Unit: L								L/min
6/13	1128	—	5.80	0.530	29.45	281.4	62.3	0.45	5.39	1
	1132	4	5.06	0.534	29.65	242.6	24.0	0.30	5.28	1
	1136	8	4.68	0.531	29.46	224.5	8.10	0.23	5.41	1
	1140	12	4.79	0.534	29.46	223.5	7.30	0.18	5.69	1
	1144	16	4.81	0.532	29.48	220.3	1.79	0.17	5.68	1
	1148	20	4.85	0.532	29.43	219.3	0.22	0.17	5.68	1
↓										

COMMENTS collected sample at 1150.

SIGNATURE

[Signature]

WELL PURGING AND SAMPLING RECORD

WELL ID MW613 SAMPLE NO. G-03-07-MW-613

WELL/SITE DESCRIPTION _____

DATE 6/13/07 TIME 1000 AIR TEMP. 80°F +

WELL DEPTH 49.85 ft CASING HEIGHT flush ft
 WATER DEPTH 5.95 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE _____ (gpm) (LPM) 1.0
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (X) No PUMP TIME 35 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 9 (gal) (L)

Date	Time	Volume Removed	pH	Cond. mS/cm	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate
		Unit: L								L/min
6/13	1015	~	8.35	0.679	27.78	254.4	1757	0.67	5.97	1
	1022	4	7.97	0.673	27.71	224.8	881	0.24	5.98	1
	1026	8	7.30	0.669	27.53	212.4	284	0.21	5.98	1
	1030	12	6.72	0.660	27.51	200.9	122	0.18	5.98	1
	1034	16	6.17	0.662	27.45	193.6	41.4	0.14	5.98	1
	1038	20	6.03	0.659	27.46	189.5	26.2	0.12	5.98	1
	1042	24	5.90	0.659	27.51	188.8	37.3	0.12	5.98	1
	1046	28	5.85	0.656	27.51	188.0	18.8	0.11	5.98	1
	1050	32	5.84	0.658	27.55	188.0	13.3	0.10	5.98	1

COMMENTS collected sample at 1052.

SIGNATURE [Signature]

WELL PURGING AND SAMPLING RECORD

WELL ID MW7A SAMPLE NO. 6-03-07-MW-07A
WELL/SITE DESCRIPTION _____

DATE 6/13/07 TIME 1200 AIR TEMP. 80°F

WELL DEPTH 35.63 ft CASING HEIGHT flush ft
WATER DEPTH 4.95 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.25 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 40 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 3.5 (gal) (L)

Date	Time	Volume Removed Unit: L	pH	Cond. mS/cm	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate L/min
6/13	1230	—	6.41	0.745	27.56	114.7	877	0.88	8.21	0.25
	1234	1	6.36	0.737	27.33	116.3	221	0.28	7.72	0.25
	1238	2	6.38	0.736	27.40	115.8	135	0.25	9.08	0.25
	1242	3	6.39	0.735	27.40	115.0	111.2	0.20	9.16	0.25
	1246	4	6.45	0.733	27.30	110.7	90.4	0.19	9.51	0.25
	1250	5	6.45	0.730	27.19	118.5	80.1	0.18	10.52	0.25
	1254	6	6.55	0.730	27.27	101.8	69.4	0.37	10.74	0.25
	1258	7	6.54	0.730	27.17	108.0	69.4	0.21	11.10	0.25
	1302	8	6.57	0.732	27.20	100.2	72.9	0.17	11.29	0.25
	1306	9	6.58	0.731	27.18	98.7	56.2	0.17	11.42	0.25
	1310	10	6.56	0.731	27.17	99.2	47.3	0.16	11.35	0.25

COMMENTS Collected Sample at 1315.

SIGNATURE

[Signature]



143 144

QA/QC SAMPLES COLLECTED/DESIGNATION:

QA/QC SAMPLES COLLECTED/DESIGNATION: _____
WELL/SITE DESCRIPTION: Flush mt in bituminous pavement along
Perimeter Rd.

DATE 06/13/07 TIME 1130 AIR TEMP. 109°F
Sunny/Windy

WELL DEPTH 69.38 ft CASING HEIGHT Flush ft
WATER DEPTH 5.20 ft WELL DIAMETER 2" in
WATER COL. HEIGHT 64.18 ft SANDPACK DIAM. _____ in
PUMP INTAKE DEPTH _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 LPM (gpm) (LPM)
PUMP TIME 25 min + 5 min for sampling = 30 min. min
WELL WENT DRY? () Yes (X) No PUMP TIME ~ 30 min
VOL. REMOVED ~ 25.0 + sample (gal) (L) RECOVERY TIME N/A min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~ 25 + sample (gal) (L)

[illegible]

COMMENTS Well good/stable. Collected sample @ 1215 (G-03-07-mw 7B).

SIGNATURE Chris Mann

WELL PURGING AND SAMPLING RECORD

WELL ID MW-08A SAMPLE NO. G-03-07-MW-08A
WELL/SITE DESCRIPTION _____

DATE 6/13/07 TIME 1410 AIR TEMP. 70°F

WELL DEPTH ≈ 27.90 ft CASING HEIGHT Flush ft
WATER DEPTH 13.33 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 - 0.25 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 14 (gal) (L)

Date	Time	Volume Removed Unit: (L)	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate L/min
6/13/07	1430	—	7.11	0.638	31.95	-98	71000	0.80	16.11	0.5
	1434	2.0	6.94	0.618	31.61	-125	71000	0.37	17.24	0.25
	1438	9.0	6.89	0.605	31.49	-151	448	0.29	19.01	1.000
	1442	4.0	6.85	0.591	31.16	-168	71000	0.22	23.05	1.000
	1446	18.0	6.86	0.582	31.08	-166	7000	0.14	24.06	0.25
	1450	12.0	6.85	0.580	31.18	-130	71000	0.15	24.51	0.25
	1454	13.0	6.88	0.584	31.42	-124	7000	0.11	24.72	0.25
	1458	14.0	Purging to try to clear turbidity							

COMMENTS Very poor produces No odor. Allowed to
recharge, Sampled @ 1500

SIGNATURE

William R. [Signature]



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW08B SAMPLE NO. G-03-07-MW08B

WELL/SITE DESCRIPTION _____

DATE 6/13/07 TIME 1400 AIR TEMP. 80°F

WELL DEPTH 52.0 ft CASING HEIGHT flask ft
 WATER DEPTH 15.93 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE 1.0 (gpm) (LPM)
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (X) No PUMP TIME 20 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 6 (gal) (L)

1 gal

Date	Time	Volume Removed Unit: L	pH	Cond. mS/cm	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate L/min
6/13	1426	—	5.90	0.768	28.99	114.2	1530	0.54	16.02	1
	1430	4	5.73	0.774	29.16	118.0	153	0.30	16.00	1
	1434	8	6.12	0.777	29.03	107.4	66.3	0.25	16.02	1
	1438	12	6.12	0.776	29.13	105.8	34.3	0.21	16.00	1
	1442	16	6.18	0.775	29.10	104.2	19.8	0.20	16.00	1
	1446	20	6.17	0.774	29.00	99.8	9.8	0.20	16.00	1

COMMENTS Collected sample at 1450

SIGNATURE by M. Hu



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW9A SAMPLE NO. 6-03-07-MW-09A
WELL/SITE DESCRIPTION _____

DATE 6/12/07 TIME 1130 AIR TEMP. 80° +

WELL DEPTH 45.13 ft CASING HEIGHT 2.41 ft
WATER DEPTH 26.22 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 35 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 9 (gal) (L)

^{1 gal +}

Date	Time	Volume Removed Unit: L	pH	Cond. µS/cm	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate L/min
6/12/07	1146	-	10.44	0.656	28.04	26.1	467	0.44	28.92	1
	1150	4	10.00	0.656	27.84	8.2	37.8	0.22	29.71	1
	1154	8	9.74	0.660	27.82	14.3	13.8	0.20	29.64	1
	1158	12	9.59	0.658	27.86	16.8	7.64	0.15	29.60	1
	1202	16	9.65	0.626	27.85	508.1	8.33	0.15	29.88	1
	1206	20	9.67	0.630	27.85	472.6	4.42	0.11	29.91	1
✓	1210	24	9.70	0.662	27.78	385.5	4.09	0.10	30.11	1
	1214	28	9.56	0.661	27.75	378.2	7.40	0.11	31.11	1
	1218	32	9.60	0.660	27.75	372.0	3.13	0.11	30.74	1

COMMENTS Good procedure. Collected sample @ 1230

SIGNATURE

by M Mc



WELL ID MW-2
WELL/SITE DESCRIPTION

SAMPLE NO. G-03-07 - MW-09B

DATE 6/12/07

TIME 1120

AIR TEMP. 85°F

WELL DEPTH 69.2 ft

CASING HEIGHT _____ ft

WATER DEPTH 16.35 ft

WELL DIAMETER 2 in

WATER COL. HEIGHT 57.85 ft

SANDPACK DIAM. _____ in

EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)

PUMP RATE _____ (gpm) (LPM)

PUMP TIME _____ min

WELL WENT DRY? () Yes (~~X~~) No

PUMP TIME 25 min

VOL. REMOVED _____ (gal) (L)

RECOVERY TIME _____ min

PURGE AGAIN? () Yes (☒) No

TOTAL VOL. REMOVED 7 (gal) (L)

COMMENTS

Sample Time = 1215 All good/stable

SIGNATURE

William R. Span



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW-10A SAMPLE NO. G-03-07-MW-10A

QA/QC SAMPLES COLLECTED/DESIGNATION: _____

WELL/SITE DESCRIPTION: Stick-up, bituminous pavement
adjacent to OPW & lbg.

DATE 06/13/07 TIME 0746 AIR TEMP. ~80°F
Sunny/humid

WELL DEPTH 42.86 ft CASING HEIGHT ~2.5' ft
WATER DEPTH 25.89 ft WELL DIAMETER 2" in
WATER COL. HEIGHT 17.57 ft SANDPACK DIAM. _____ in
PUMP INTAKE DEPTH _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 60 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 55 (gal) (L)

Date	Time	Volume Removed	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
		Unit:								LPM
6/13/07	0800	—	6.94	0.831	28.38	104.1	1807	1.90	25.29	1.0
	0805		6.67	0.822	28.44	118.0	954	0.47	25.63	1
	0810		6.68	0.819	28.47	118.4	349	0.38	25.63	
	0815		6.69	0.817	28.46	118.9	97	0.31		
	0820		6.68	0.816	28.47	119.1	26	0.30		
	0825		6.68	0.813	28.52	120.4	N/A*	0.29		
	0830		6.68	0.811	28.53	120.9	N/A	0.24		
	0835		6.68	0.811	28.57	120.9	N/A	0.29		
	0840		6.67	0.811	28.61	122.0	N/A	0.20		
	0845		6.67	0.811	28.61	122.8	N/A	0.19		
✓	0850		6.67	0.812	28.69	123.6	N/A	0.17	↓	↓
6/13/07	0855	55	6.67	0.813	28.73	123.6	20.3	0.17	25.63	1.0

COMMENTS * N/A - not able to collect turbidity reading, meter not working.
Trouble-shot turbidity meter, re-gained operation & collected reading.
All other parameters stable/good. Collected sample @ 0900.

SIGNATURE Chris Mann

(G-03-07-MW10A)



WELL ID MU-10B SAMPLE NO. G-03-07-MU-10B

WELL/SITE DESCRIPTION: Stick-up, bituminous paved parking lot adj. to ppw bldg.

DATE 06/12/07 TIME 1120 AIR TEMP. ~ 85°F
Sunny / Humid

WELL DEPTH 55.00 ft CASING HEIGHT 2.5 ft
WATER DEPTH 25.02 ft WELL DIAMETER 2" in
WATER COL. HEIGHT 29.98 ft SANDPACK DIAM. _____ in
PUMP INTAKE DEPTH _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.50 LPM (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 15 (gal) (L)

[illegible]

COMMENTS Well good / stable. Water level cont. to gradually drop. Collected Sample @ 1210 (6-03-07-mw 10 @).

SIGNATURE Am Y Mear



WELL ID MW-11A SAMPLE NO. 6-03-07-MW-11A
WELL/SITE DESCRIPTION _____

WELL DEPTH 32 ft CASING HEIGHT 2 ft
WATER DEPTH 7.65 ft WELL DIAMETER 2 in
WATER COL. HEIGHT 24.35 ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 9 (gal) (L)

COMMENTS Good produce. All stable.
Sample Time = 1030

William H. H. H.



WELL ID MW-11B SAMPLE NO. G-03-07-MW-11B
WELL/SITE DESCRIPTION _____

DATE 6/12/07 TIME 0810 AIR TEMP. 85°F

WELL DEPTH 54.93 ft CASING HEIGHT 1.40 ft
WATER DEPTH 7.05 ft WELL DIAMETER 2 in
WATER COL. HEIGHT 47.88 ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 230 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 40 (gal) (L)

[illegible]

COMMENTS

COMMENTS Great product. Clear/woodor. (in 5 min)

Sample Time = 0800

SIGNATURE

William Hays



WELL ID MW-12A SAMPLE NO. 6-03-07-MW-12A

WELL/SITE DESCRIPTION: NW Boundary - Fort Buchanan
Along perimeter Rd

AIR TEMP. ~ 75°F
humid / sunny

WELL DEPTH 33.45 (From Arc) ft CASING HEIGHT Flush ft
WATER DEPTH 6.69 ft WELL DIAMETER 2" in
WATER COL. HEIGHT 27.26 ft SANDPACK DIAM. _____ in
PUMP INTAKE DEPTH _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1 LPM (gpm) (LPM)
PUMP TIME 30 min purge then sample ~ 10 min. min
WELL WENT DRY? () Yes (X) No PUMP TIME 30 min
VOL. REMOVED 30 (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED _____ (gal) (L)

[illegible]

COMMENTS well good/stable.
Collected sample @ 0900 Collected DVP-2 @ this
location (07-JN-12-PP2).

SIGNATURE Am J Mann.



WELL ID Mw-12B SAMPLE NO. G-03-07-Mw-12B

WELL/SITE DESCRIPTION: Flush mt / bituminous pavement
Along perimeter Rd.

Sunny / humid

[illegible]

SIGNATURE

Ann Mann

WELL PURGING AND SAMPLING RECORD

WELL ID MW13A SAMPLE NO. 0-03-07-MW-13A
WELL/SITE DESCRIPTION _____

DATE 06/12/07 TIME 945 AIR TEMP. 80°F

WELL DEPTH 39.50 ft CASING HEIGHT flush ft
WATER DEPTH 5.49 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 gpm - 1 L/min (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes ☒ No PUMP TIME 36 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes ☒ No TOTAL VOL. REMOVED 14 (gal) (L)

5 gal +

Date	Time	Volume Removed	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
		Unit: L								
6/12	1012	—	8.55	0.654	29.31	36.8	149	0.40	6.44	1
	1016	4	7.95	0.643	29.34	31.4	235	0.19	6.34	1
	1020	8	7.58	0.641	29.37	33.9	8.34	0.17	6.35	1
	1024	12	7.57	0.635	29.35	35.9	3.79	0.14	6.35	1
	1028	16	7.61	0.639	29.33	35.3	4.14	0.12	6.35	1
	1032	20	7.73	0.637	29.36	34.4	3.05	0.13	6.35	1
	1036	24	7.70	0.635	29.35	33.9	2.39	0.12	6.35	1
	1040	28	7.33	0.636	29.34	31.5	2.28	0.12	6.35	1
V	1044	32	7.36	0.636	29.35	36.9	1.77	0.11	6.38	1
	1048	36	7.37	0.636	29.35	37.4	2.51	0.11	6.39	1

COMMENTS Good Producer. Sampled at 1050

SIGNATURE by U. A. C.

WELL PURGING AND SAMPLING RECORD

WELL ID MW13B SAMPLE NO. G-03-07-MW-13B
WELL/SITE DESCRIPTION _____

DATE 6/12/07 TIME 8:00 AIR TEMP. 80°F +

WELL DEPTH 63.65 ft CASING HEIGHT flush ft
WATER DEPTH 5.87 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes ☒ No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes ☒ No TOTAL VOL. REMOVED 12 (gal) (L)

5 gal +

Date	Time	Volume Removed Unit: L	pH	Cond. mS/cm	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate L/min
6/12	830	-	8.31	0.962	28.27	118.6	89.6	1.16	6.0	1
	834	4	8.49	0.954	28.16	66.2	28.9	0.38	6.0	1
	838	8	8.38	0.962	28.13	47.9	21.5	0.26	6.0	1
	842	12	8.21	0.966	28.11	45.8	10.20	0.19	6.0	1
	846	16	8.14	0.973	28.09	49.1	55.1	0.16	6.0	1
	850	20	8.03	0.972	28.08	48.3	10.26	0.13	6.0	1
✓	854	24	8.05	0.974	28.07	50.0	6.82	0.12	6.0	1
	858	28	8.05	0.976	28.07	49.8	4.85	0.11	6.0	1

COMMENTS Good producer sampled at 900. Collected field dup. #1.

SIGNATURE

by M R



WELL PURGING AND SAMPLING RECORD

WELL ID MW 6 B

SAMPLE NO. 6-03-08-MW-6R

WELL/SITE DESCRIPTION

DATE 1/19/08

TIME 1400

AIR TEMP. ~80°F

WELL DEPTH 49.00 ft

CASING HEIGHT Flush ft

WATER DEPTH 7.99 ft

WELL DIAMETER 2 in

WATER COL. HEIGHT _____ ft

SANDPACK DIAM. _____ in

EQUIVALENT VOLUME OF STANDING WATER

PUMP RATE _____ (gal) (L)

PUMP TIME _____ 1.0 _____ (gpm) (LPM)

WELL WENT DRY? () Yes X () No min

VOL. REMOVED _____ PUMP TIME 20 min

PURGE AGAIN? () Yes (X) No (gal) (L) RECOVERY TIME _____ min

PURGE AGAIN? () Yes (X) No

RECOVERY TIME _____ min

TOTAL VOL. REMOVED 20 (gal) (L)

[illegible]

COMMENTS Collected sample at 1445 + field duplicate
(08-JA-09-0P2)

SIGNATURE



WELL ID MW-7A SAMPLE NO. 6-03-08-MW-7A
WELL/SITE DESCRIPTION _____

WELL DEPTH _____ ft CASING HEIGHT Flush ft
WATER DEPTH 4.58 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~36 (gal) (L)

COMMENTS Sample Turns = 1405 Pallet \approx 2 gal
Slight odor. prior to reading water's quality.

William D. Jurek



WELL ID MW-7B SAMPLE NO. G-03-08-MW-7B
WELL/SITE DESCRIPTION _____

DATE 1/8/08 TIME 1415 AIR TEMP. 85°F

WELL DEPTH _____ ft CASING HEIGHT flush mt ft
WATER DEPTH 4.32 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~ 28 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~ 32 (gal) (L)

[illegible]

COMMENTS Moderate odor. Pumped \approx 2 gal prior to
washing H₂O quality.

Sample Time: 1500

SIGNATURE

William R. Hargis



WELL ID MW 8B SAMPLE NO. G-03-08-MW-8B
WELL/SITE DESCRIPTION _____

DATE 1/9/08 TIME 1130 AIR TEMP. ~ 80°F

WELL DEPTH 51.57 ft CASING HEIGHT flush ft
WATER DEPTH 14.89 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~27 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 36 (gal) (L)

[illegible]

COMMENTS Collected sample at 1210 + Field Duplicate #1
(08-5A-09-DP1)

SIGNATURE

by Mr



WELL ID MW9A SAMPLE NO. 6-03-08-MW-9A
WELL/SITE DESCRIPTION _____

DATE 1/9/05 TIME 1015 AIR TEMP. -80°F

WELL DEPTH _____ ft CASING HEIGHT _____ ft
WATER DEPTH 23.67 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 20 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 40 (gal) (L)

[illegible]

COMMENTS Collected sample at 1055

SIGNATURE

**EA Engineering, Science,
and Technology, Inc.**

WELL PURGING AND SAMPLING RECORD

WELL ID MW 9B SAMPLE NO. 6-03-08-MW-9B
WELL/SITE DESCRIPTION _____

DATE 1/9/05 TIME 910 AIR TEMP. ~80°F

WELL DEPTH 69.0 ft CASING HEIGHT 7.1 ft
WATER DEPTH 15.02 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 20 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 32 (gal) (L)

[illegible]

COMMENTS Collected sample at 950.

SIGNATURE by M. S.

WELL PURGING AND SAMPLING RECORD

WELL ID MW 10 A SAMPLE NO. G-03-08-MW-DA
WELL/SITE DESCRIPTION Near dumpster.

DATE 1/9/08 TIME 1040 AIR TEMP. ~80°F

WELL DEPTH _____ ft CASING HEIGHT _____ ft
WATER DEPTH 24.52 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 22 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 36 (gal) (L)

[illegible]

COMMENTS Collected sample at 1115

SIGNATURE by M A



WELL PURGING AND SAMPLING RECORD

WELL ID MW 10 B SAMPLE NO. 6-03-08-MW-10B
 WELL/SITE DESCRIPTION Near dumpster.

DATE 1/8/07 TIME 945 AIR TEMP. ~ 80°F

WELL DEPTH _____ ft CASING HEIGHT _____ ft
 WATER DEPTH 24.36 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE _____ 1.0 (gpm) (LPM)
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (☒) No PUMP TIME 25 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (☒) No TOTAL VOL. REMOVED 28 (gal) (L)

Date	Time	Volume Removed Unit: L	pH	Cond. mg/L	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate L/min
1/8	1004	—	6.55	3.989	25.38	58.9	370.3	1.26	25.93	1
	1008	4	6.57	3.992	25.47	78.1	253.5	1.34	28.75	1
	1012	8	6.57	4.014	25.55	88.2	129.1	1.39	30.53	1
	1016	12	6.52	4.016	25.52	97.5	71.3	1.32	32.10	1
	1020	16	6.50	4.023	25.50	105.9	31.0	1.59	32.15	1
	1024	20	6.48	4.011	25.50	112.8	18.7	1.51	32.20	1
	1028	24	6.48	4.013	25.49	114.3	7.2	1.40	32.24	1

COMMENTS Collected sample at 1030.

SIGNATURE by M. A.



WELL ID MW-11A SAMPLE NO. G-03-08-MD-11A
WELL/SITE DESCRIPTION _____

DATE 1/9/08 TIME 1405 AIR TEMP. 80°F

WELL DEPTH _____ ft CASING HEIGHT 2 ft
WATER DEPTH 6.94 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 110 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 22 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 24 (gal) (L)

[illegible]

COMMENTS

Sample Time = 1450 $\frac{\text{ms}}{\text{ms}}$ performed

SIGNATURE

William R. Hunt



WELL ID MW-11B SAMPLE NO. G03-08-MW-11B
WELL/SITE DESCRIPTION _____

DATE 1, 9, 08 TIME 1500 AIR TEMP. 80°F

WELL DEPTH _____ ft CASING HEIGHT ~1.5 ft
 WATER DEPTH 6.98 (6.40) ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE _____ L.O. (gpm) (LPM)
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (X) No PUMP TIME ~22 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~28 (gal) (L)

[illegible]

COMMENTS Sample Time = 1540

SIGNATURE William D. Kay



WELL PURGING AND SAMPLING RECORD

WELL ID 603-08-MW-12A SAMPLE NO. _____
WELL/SITE DESCRIPTION _____

DATE 01/09/08 TIME 1410 AIR TEMP. 80°

WELL DEPTH 33.74 ft CASING HEIGHT F.M. ft
WATER DEPTH 5.53 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 0.5 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (☒) No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (☒) No TOTAL VOL. REMOVED 16.0 (gal) (L)

Date	Time	Volume Removed Unit: <u>L</u>	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
<u>01/09/08</u>	<u>1420</u>	<u>1.0</u>	<u>8.55</u>	<u>1.505</u>	<u>28.65</u>	<u>-112.8</u>	<u>213.6</u>	<u>3.97</u>	<u>5.53</u>	<u>0.5 L/min</u>
	<u>1425</u>	<u>3.5</u>	<u>7.56</u>	<u>1.937</u>	<u>27.72</u>	<u>-104.0</u>	<u>40.0</u>	<u>2.09</u>	<u>5.53</u>	<u>"</u>
	<u>1430</u>	<u>6.0</u>	<u>7.41</u>	<u>1.476</u>	<u>27.67</u>	<u>-102.0</u>	<u>14.2</u>	<u>1.50</u>	<u>5.54</u>	<u>"</u>
	<u>1435</u>	<u>8.5</u>	<u>7.38</u>	<u>1.473</u>	<u>27.59</u>	<u>-102.3</u>	<u>13.6</u>	<u>1.25</u>	<u>5.54</u>	<u>"</u>
	<u>1440</u>	<u>11.0</u>	<u>7.38</u>	<u>1.470</u>	<u>27.67</u>	<u>-93.4</u>	<u>22.3</u>	<u>1.10</u>	<u>—</u>	<u>"</u>
	<u>1445</u>	<u>13.5</u>	<u>7.37</u>	<u>1.472</u>	<u>27.79</u>	<u>-92.4</u>	<u>2.3</u>	<u>0.98</u>	<u>—</u>	<u>"</u>
	<u>1450</u>	<u>16.0</u>	<u>7.37</u>	<u>1.473</u>	<u>27.73</u>	<u>-89.7</u>	<u>2.3</u>	<u>0.95</u>	<u>5.54</u>	<u>0.5 L/min</u>

COMMENTS Sampled @ 1450

SIGNATURE B. Smith



WELL PURGING AND SAMPLING RECORD

WELL ID 603-08-MW-12B SAMPLE NO. _____
 WELL/SITE DESCRIPTION _____

DATE 01/09/08 TIME 1515 AIR TEMP. 80°

WELL DEPTH 55.76 ft CASING HEIGHT 7.11 ft
 WATER DEPTH 5.49 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE 0.5 (gpm) (LPM)
 PUMP TIME 0.1 min
 WELL WENT DRY? () Yes (X) No PUMP TIME 30 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 16 (gal) (L)

Date	Time	Volume Removed Unit:	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
01/09/08	1520	1.0	9.70	1.876	27.95	-197.0	208.6	2.21	5.56	0.54/min
	1525	3.5	8.09	2.103	27.11	-145.0	354.8	1.24	5.54	"
	1530	6.0	8.04	1.622	27.55	-150.7	257.2	1.09	"	"
	1535	8.5	7.94	1.514	27.46	-134.2	35.0	0.86	5.54	"
	1540	11.0	7.93	1.511	27.20	-121.8	30.4	0.79	—	"
	1545	13.5	7.93	1.511	27.24	-126.5	21.2	0.76	—	"
	1550	16.0	7.94	1.511	27.27	-129.8	18.2	0.73	5.54	0.54/min

COMMENTS Sampled @ 1550

SIGNATURE B. H. H.



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW 134 SAMPLE NO. G-03-08-MW-134
WELL/SITE DESCRIPTION _____

DATE 1/18/08 TIME 1315 AIR TEMP. ~80°F

WELL DEPTH _____ ft CASING HEIGHT flush/0 ft
WATER DEPTH 5.04 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 44 (gal) (L)
+ 4 gal

Date	Time	Volume Removed	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
		Unit: L		µS/cm	°C		NTU	mg/L		L/min
1/18	1330	—	6.53	3.213	29.33	19.0	324.8	1.16	5.59	1
	1334	4	6.36	3.189	29.35	55.6	210.1	1.38	5.67	1
	1338	8	6.33	3.188	29.34	60.4	133.7	1.47	5.74	1
	1342	12	6.28	3.176	29.35	65.4	60.0	1.60	5.80	1
	1346	16	6.26	3.177	29.35	68.9	39.9	1.78	5.79	1
	1350	20	6.23	3.179	29.32	68.7	21.1	1.78	5.80	1
	1354	24	6.22	3.171	29.30	70.5	11.0	1.78	5.80	1
▽	1358	28	6.21	3.170	29.32	70.4	6.9	1.80	5.80	1

COMMENTS Collected sample at 1400.

SIGNATURE

[Signature]



WELL ID MW-13B SAMPLE NO. 6-03-08-MW-13B
WELL/SITE DESCRIPTION _____

WELL DEPTH _____ ft CASING HEIGHT flow h/o _____ ft
WATER DEPTH 5.29 ft WELL DIAMETER 2 inch in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 20 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 32 (gal) (L)
4 gal +

[illegible]

COMMENTS Collected sample at 1440.

SIGNATURE

by M. A.



WELL ID MW-14A SAMPLE NO. G-03-08-MW-14A
WELL/SITE DESCRIPTION _____

WELL DEPTH _____ ft CASING HEIGHT 22.5 ft
WATER DEPTH 9.50 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (✓) No PUMP TIME 22 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (✓) No TOTAL VOL. REMOVED 28 (gal) (L)

[illegible]

COMMENTS Slow production. No odor.

Sample Time-1130

SIGNATURE William P. Hay



WELL ID MW-14B SAMPLE NO. G-03-08-MW-14B
WELL/SITE DESCRIPTION _____

DATE 1/9/08 TIME 0930 AIR TEMP. 85°F

WELL DEPTH _____ ft
WATER DEPTH 0.0 (Artesian)
WATER COL. HEIGHT _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? ~~(X) Yes~~ (X) No
VOL. REMOVED _____ (gal) (L)
PURGE AGAIN? ~~(X) Yes~~ (X) No
CASING HEIGHT ~ 2.5 ft
WELL DIAMETER 2 in
SANDPACK DIAM. _____ in
PUMP TIME ~ 30 min
RECOVERY TIME _____ min
TOTAL VOL. REMOVED ~ 36 (gal) (L)

[illegible]

COMMENTS

SIGNATURE

William A. Hays



WELL ID MW-15A SAMPLE NO. 6-03-08-MW-15A
WELL/SITE DESCRIPTION _____

DATE 1, 8, 08 TIME 1005 AIR TEMP. 85°F

WELL DEPTH _____ ft CASING HEIGHT 1.75 ft
WATER DEPTH 14.97 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~ 3.0 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 40 (gal) (L)

[illegible]

COMMENTS: MS/MSD performed, good producer, no odor

Sample Time = 1100

SIGNATURE

William R. Stacy



WELL PURGING AND SAMPLING RECORD

WELL ID 603-08-MW-16A SAMPLE NO. _____
 WELL/SITE DESCRIPTION _____

DATE 01/08/08 TIME 0800 AIR TEMP. 80°F

WELL DEPTH 47.57 ft CASING HEIGHT 2.5 ft
 WATER DEPTH 14.69 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT 32.88 ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE _____ (gpm) (LPM) 0:350
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (X) No PUMP TIME 35 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 12.25 (gal) (L)
20.25 (L)

Date	Time	Volume Removed Unit: L	pH mV	Cond. mg/cm ²	Temp. °C	ORP mV	Turb. NTU	DO mg/l	Depth to Water from TOC	Pump Rate ml/min
<u>01/08/08</u>	<u>0820</u>	—	<u>5.34</u>	<u>1.410</u>	<u>27.38</u>	<u>276.3</u>	<u>278.3</u>	<u>5.91</u>	—	<u>350 ml/min</u>
	<u>0825</u>	<u>1.75</u>	<u>6.37</u>	<u>1.433</u>	<u>27.33</u>	<u>245.3</u>	<u>405.7</u>	<u>2.91</u>	<u>14.84</u>	"
	<u>0830</u>	<u>3.5</u>	<u>6.51</u>	<u>1.436</u>	<u>27.38</u>	<u>208.2</u>	<u>233.6</u>	<u>2.26</u>	—	"
	<u>0835</u>	<u>5.25</u>	<u>6.59</u>	<u>1.429</u>	<u>27.49</u>	<u>150.5</u>	<u>93.8</u>	<u>1.87</u>	<u>14.84</u>	"
	<u>0840</u>	<u>7.0</u>	<u>6.64</u>	<u>1.424</u>	<u>27.56</u>	<u>130.8</u>	<u>47.1</u>	<u>1.69</u>	—	"
	<u>0845</u>	<u>8.75</u>	<u>6.68</u>	<u>1.420</u>	<u>27.50</u>	<u>114.2</u>	<u>28.4</u>	<u>1.53</u>	<u>14.82</u>	"
	<u>0850</u>	<u>10.50</u>	<u>6.71</u>	<u>1.416</u>	<u>27.52</u>	<u>113.4</u>	<u>20.0</u>	<u>1.44</u>	—	"
	<u>0855</u>	<u>12.25</u>	<u>6.72</u>	<u>1.415</u>	<u>27.55</u>	<u>114.4</u>	<u>18.5</u>	<u>1.42</u>	<u>14.82</u>	<u>350 ml/min</u>

COMMENTS Sampled @ 0855
Purged 2 gallons (≈ 8.0 Liters) before taking readings.

SIGNATURE B. H. H.



WELL ID 603-08-MW-16B SAMPLE NO. _____
WELL/SITE DESCRIPTION _____

DATE 01/08/08 TIME 0955 AIR TEMP: 80°(F)

WELL DEPTH 64.63 ft CASING HEIGHT 25 ft
WATER DEPTH 15.69 ft WELL DIAMETER 2 in
WATER COL. HEIGHT 48.94 ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 0.4 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (☒) No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (☒) No TOTAL VOL. REMOVED 12.0 (gal) (L)

[illegible]

COMMENTS Sampled @ 1030
Purged 2 gallons before taking readings.

SIGNATURE

Briffy



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW-17A SAMPLE NO. 6-03-08-MW-17A

WELL/SITE DESCRIPTION Commissary

DATE 1/18/08 TIME 800 AIR TEMP. ~80° F

WELL DEPTH 45.15 ft CASING HEIGHT flush ft
WATER DEPTH 7.32 ft WELL DIAMETER _____ in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 35 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 48 (gal) (L)

Sqr +

Date	Time	Volume Removed Unit: L	pH	Cond. mS/cm	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate L/min
1/18	824	—	8.40	3.764	29.18	51.3	76.4	0.97	14.38	1
	828	4	8.40	3.764	29.22	78.1	80.1	0.99	14.42	1
	832	8	7.95	3.763	29.20	22.1	68.2	0.98	14.31	1
	836	12	7.84	3.764	29.24	22.5	49.9	0.85	14.13	1
	840	16	7.78	3.773	29.23	36.2	38.1	0.61	13.52	1
	844	20	7.79	3.718	29.24	56.7	22.0	0.57	14.09	1
	848	24	7.79	3.535	29.25	71.6	10.1	0.66	14.10	1
	852	28	7.78	3.504	29.25	77.6	8.9	0.65	14.10	1
	856	32	7.78	3.412	29.25	77.6	3.0	0.69	14.10	1

COMMENTS Sampled at 900. + FD
(08-JA-08-DD)

SIGNATURE



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID 603-08-MW-18A SAMPLE NO. _____
WELL/SITE DESCRIPTION _____

DATE 01/09/08 TIME 0920 AIR TEMP. 80°

WELL DEPTH 45.07 ft CASING HEIGHT F.M. ft
WATER DEPTH 13.85 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (ft)
PUMP RATE _____ 0.4 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 50 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 28.0 (gal) (L)

Date	Time	Volume Removed Unit: L	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
01/09/08	0940	8.0	7.59	1.424	29.75	-72.6	842.8	3.64	-	400ml/min
	0945	10.0	7.57	1.406	29.77	-101.8	1228.7	1.75	14.26	"
	0950	12.0	7.55	1.400	29.67	-90.2	808.3	1.36	-	"
	0955	14.0	7.61	1.399	29.65	-69.1	480.2	1.56	14.34	"
	1000	16.0	7.55	1.381	29.59	-84.2	230.8	1.08	-	"
	1005	18.0	7.55	1.369	29.64	-87.9	144.1	0.98	14.39	"
	1010	20.0	7.57	1.361	29.63	-86.3	88.4	0.90	14.39	"
	1015	22.0	7.60	1.359	29.62	-111.1	67.2	0.80	-	"
	1020	24.0	7.65	1.363	29.58	-118.8	23.2	0.78	14.39	"
	1025	26.0	7.61	1.362	29.85	-114.1	14.9	0.74	-	"
	1030	28.0	7.60	1.360	29.87	-113.6	7.7	0.74	14.39	400ml/min
							7.7			7.7 added in wrong column

COMMENTS Sampled @ 1030
Purged 2 gallons before taking readings

SIGNATURE

B. Smith



WELL PURGING AND SAMPLING RECORD

WELL ID 603-08-MW-18B SAMPLE NO. _____
 WELL/SITE DESCRIPTION _____

DATE 01/09/08 TIME 1110 AIR TEMP. 80°

WELL DEPTH 13.99 ~~13.11~~ 61.88 ft CASING HEIGHT Flush ft
 WATER DEPTH 13.99 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE 0.25 (gpm) (LPM)
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (X) No PUMP TIME 40 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 10 (gal) (L)

Date	Time	Volume Removed Unit: L	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
	1125	0.0	7.97	1.720	30.01	-121.6	1356	2.40	14.65	250 ml/min
	1130	1.25	7.89	1.889	30.70	-158.6	631.7	0.91	17.80	"
	1135	2.50	7.92	1.660	30.67	-158.9	188.2	0.81	18.65	"
	1140	3.75	7.96	1.658	30.60	-158.7	127.7	0.79	20.07	"
	1145	5.0	8.05	1.652	30.80	-164.3	72.8	0.74	21.64	"
	1150	6.25	7.99	1.671	30.40	-172.4	45.6	0.66	24.63	"
	1155	7.50	7.99	1.699	30.42	-176.3	43.7	0.62	26.29	"
	1200	8.75	7.98	1.702	30.43	-179.5	44.2	0.63	28.66	"
	1205	10.0	8.04	1.732	30.30	-180.6	39.9	0.54	32.19	"

COMMENTS Sampled @ 1205
Did not purge any H₂O before readings. Well did produce good during development.

SIGNATURE Burt



WELL PURGING AND SAMPLING RECORD

WELL ID 608-08-MW-19A SAMPLE NO. _____
 WELL/SITE DESCRIPTION _____

DATE 01/08/08 TIME 1445 AIR TEMP. 80-85°

WELL DEPTH 38.60 ft CASING HEIGHT 2.5 ft
 WATER DEPTH 4.55 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT 34.05 ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE _____ (gpm) (LPM) 0.4
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (X) No PUMP TIME 40 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 24.0 (gal) (L)

Date	Time	Volume Removed Unit: L	pH mV	Cond. mS/cm	Temp. °C	ORP mV	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate ml/min
01/08/08	1455	8.0	7.43	1.504	28.01	-42.6	66.1	2.60	—	400ml/min
	1500	10.0	7.16	1.554	28.10	-31.0	34.1	1.66	4.72	"
	1505	12.0	7.17	1.573	27.72	-1.1	343.7	2.32	—	"
	1510	14.0	7.14	1.571	28.10	-12.4	91.8	1.83	—	"
	1515	16.0	7.13	1.510	27.54	-18.9	34.9	1.02	4.66	"
	1520	18.0	7.11	1.505	27.53	-33.8	12.4	0.81	4.75	"
	1525	20.0	7.13	1.502	27.54	-41.9	10.7	0.78	4.75	"
	1530	22.0	7.14	1.502	27.69	-44.0	10.8	0.75	—	"
	1535	24.0	7.13	1.504	27.64	-43.7	10.9	0.74	4.75	400ml/min

COMMENTS Sampled @ 1535 Control Box Malfunctioned @
Purged 2 gallons before readings. 1505 - Pump Stopped. Restarted
@ 1507 (Clip came off of battery terminal.)

SIGNATURE Bailey



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID 1203-08-MW-19B SAMPLE NO. _____
WELL/SITE DESCRIPTION _____

DATE 01/08/08 TIME 1300 AIR TEMP. 80-85°

WELL DEPTH 59.77 ft CASING HEIGHT 2.5 ft
WATER DEPTH 4.31 ft WELL DIAMETER 2 in
WATER COL. HEIGHT 55.46 ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 0.4 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 35 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 22.0 (gal) (L)

Date	Time	Volume Removed	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
		Unit: L								
01/08/08	1310	8.0	7.47	1.511	27.84	-59.2	83.5	3.17	4.31	42ml/min
	1315	10.0	7.38	1.496	27.87	-82.8	38.2	1.38	4.55	"
	1320	12.0	7.36	1.505	27.88	-91.0	16.6	1.18	—	"
	1325	14.0	7.37	1.503	27.90	-97.1	16.8	1.07	4.58	"
	1330	16.0	7.37	1.508	27.87	-101.9	14.2	0.97	4.58	"
	1335	18.0	7.36	1.511	27.84	-99.5	12.3	0.93	—	"
	1340	20.0	7.37	1.530	27.82	-99.3	12.9	0.87	4.58	"
	1345	22.0	7.37	1.529	27.80	-100.7	12.4	0.84	4.58	"

COMMENTS Sampled @ 1345
Purged 2 gallons before taking readings

SIGNATURE

Brian Hagg



WELL ID MW-6B SAMPLE NO. 6-03-08-MW-6B
WELL/SITE DESCRIPTION _____

DATE 8, 14, 08 TIME 0825 AIR TEMP. 85°F

WELL DEPTH 50 ft CASING HEIGHT flush ft
WATER DEPTH 8.24 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 22 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 228 (gal) (L)

[illegible]

Shirast oder.

me / m s o collected *

Sample Time = 0.906

SIGNATURE

With Love

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID MW-7B
WELL/SITE DESCRIPTION _____

SAMPLE NO. 6-03-08-MW-7B

DATE 5, 14, 08

TIME 0930

AIR TEMP. 85°F

WELL DEPTH 74 ft CASING HEIGHT Flush ft
WATER DEPTH 4.53 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 226 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 228 (gal) (L)

[illegible]

COMMENTS

Slight odor (Sample Temp = 100°C)

SIGNATURE

William Robary



WELL ID MW-11A SAMPLE NO. G-03-08-MW-11A
WELL/SITE DESCRIPTION _____

DATE 05/14/08 TIME 1050 AIR TEMP. ~90°F

WELL DEPTH _____	ft	CASING HEIGHT <u>~ 2.5</u>	ft
WATER DEPTH <u>7.42</u>	ft	WELL DIAMETER _____	in
WATER COL. HEIGHT _____	ft	SANDPACK DIAM. _____	in
EQUIVALENT VOLUME OF STANDING WATER _____			(gal) (L)
PUMP RATE _____		<u>1.4 pm</u>	(gpm) (lpm)
PUMP TIME _____			min
WELL WENT DRY? () Yes (X) No		PUMP TIME <u>25</u>	min
VOL. REMOVED _____ (gal) (L)		RECOVERY TIME _____	min
PURGE AGAIN? () Yes (X) No		TOTAL VOL. REMOVED <u>25</u> (gal) (L)	

[illegible]

COMMENTS Collected sample @ 1130 - Well Good / Stable.

SIGNATURE *Ben H. ...*

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID AW-15B MW-11B
WELL/SITE DESCRIPTION _____

SAMPLE NO. G-03-08-MW-18R

DATE 51 14 105

TIME 1045

AIR TEMP. 80° F +

WELL DEPTH <u>52.5</u>	ft	CASING HEIGHT _____	ft
WATER DEPTH <u>7.82</u>	ft	WELL DIAMETER <u>2</u>	in
WATER COL. HEIGHT _____	ft	SANDPACK DIAM. _____	in
EQUIVALENT VOLUME OF STANDING WATER _____			(gal) (L)
PUMP RATE _____			(gpm) (lpm)
PUMP TIME _____			min
WELL WENT DRY? () Yes (X) No		PUMP TIME <u>20</u>	min
VOL REMOVED _____ (gal) (L)		RECOVERY TIME _____	min
PURGE AGAIN? () Yes (X) No		TOTAL VOL. REMOVED <u>25</u> (gal) (L)	

[illegible]

COMMENTS Collected sample at 1120.

SIGNATURE by M. Du



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID Mw-12A
WELL SITE DESCRIPTION _____

SAMPLE NO. G-07-08-MW-13A

DATE 05, 14, 08

TIME 0920

AIR TEMP. 28.5°F

WELL DEPTH 21 ft

CASING HEIGHT Flush ft

WELL DEPTH _____
WATER DEPTH 5.80 ft

WELL DIAMETER _____ in

WATER COL HEIGHT _____ ft

SANDPACK DIAM. _____ in

EQUIVALENT VOLUME OF STANDING WATER

(gal) (L)

PUMP RATE

(gpm) (lpm)

PUMP TIME

min

WELL WENT DRY? () Yes (X) No

PUMP TIME _____ min

VOL REMOVED _____ (gal) (L)

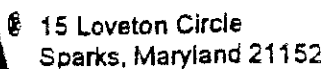
RECOVERY TIME _____ min

PURGE AGAIN? () Yes (X) No

TOTAL VOL. REMOVED 2.6 (gal) (L)[illegible]

COMMENTS Well Good/Stale. Collected sample @ 0955.

SIGNATURE AP Maren



WELL ID MW 12B SAMPLE NO. G-03-08-MW-12B
WELL/SITE DESCRIPTION _____

DATE 5/14/08 TIME 915 AIR TEMP. 80°F. +

WELL DEPTH	<u>54.56</u>	ft	CASING HEIGHT	<u>flush</u>	ft
WATER DEPTH	<u>5.77</u>	ft	WELL DIAMETER	<u>2</u>	in
WATER COL. HEIGHT		ft	SANDPACK DIAM.		in
EQUIVALENT VOLUME OF STANDING WATER					(gal) (L)
PUMP RATE	<u>0.5</u>				(gpm) (lpm)
PUMP TIME					min
WELL WENT DRY?	() Yes (X) No		PUMP TIME	<u>22</u>	min
VOL. REMOVED		(gal) (L)	RECOVERY TIME		min
PURGE AGAIN?	() Yes (X) No		TOTAL VOL. REMOVED	<u>7</u>	(gal) (L)

COMMENTS Collected sample at 950.

SIGNATURE by mbr



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID MW-13A
WELL SITE DESCRIPTION _____

SAMPLE NO. C-03-08-MW-13A

DATE 05, 14, 08

TIME 0758

AIR TEMP. 28.5°F

WELL DEPTH _____ ft

CASING HEIGHT Flush ft.

WATER DEPTH 5.18 ft

WELL DIAMETER 2.0

WATER COL. HEIGHT _____ ft

SANDPACK DIAM. _____ in

EQUIVALENT VOLUME OF STANDING WATER

(gal) (L)

PUMP RATE _____

10 (gpm) (lpm)

PUMP TIME _____

min

WELL WENT DRY? () Yes (X) No

PUMP TIME 24 min

VOL. REMOVED _____ (gal) (L)

RECOVERY TIME _____ min

PURGE AGAIN? () Yes (X) No

TOTAL VOL. REMOVED 26.5 (gal)(L)

[illegible]

COMMENTS well Good Stalle. Collected sample @ 0840
(Collected DVP (08-MA-14-0P3).

SIGNATURE



WELL ID MW-13B SAMPLE NO. 6-03-08-MW-13B
WELL/SITE DESCRIPTION _____

DATE 5/14/08 TIME 800 AIR TEMP. 80°F +

WELL DEPTH	<u>64.0</u>	ft	CASING HEIGHT	<u>Plush</u>	ft
WATER DEPTH	<u>5.50</u>	ft	WELL DIAMETER	<u>2</u>	in
WATER COL HEIGHT		ft	SANDPACK DIAM.		in
EQUIVALENT VOLUME OF STANDING WATER					(gal) (L)
PUMP RATE			<u>0.5</u>		(gpm) (lpm)
PUMP TIME					min
WELL WENT DRY?	() Yes (X) No		PUMP TIME	<u>15</u>	min
VOL REMOVED		(gal) (L)	RECOVERY TIME		min
PURGE AGAIN?	() Yes (X) No		TOTAL VOL. REMOVED	<u>6</u>	(gal) (L)

[illegible]

COMMENTS Collected sample at 844

SIGNATURE My M D



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM
GROUNDWATER SAMPLES

WELL ID MW-14A SAMPLE NO. G-03-08-MW-14A
WELL/SITE DESCRIPTION _____

DATE 05/13/08 TIME 1408 AIR TEMP. ~90°F

WELL DEPTH _____ ft CASING HEIGHT _____ ft
WATER DEPTH _____ ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 40 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 10 (gal) (L)

Date	Time	Volume Removed	pH	Cond	Temp	ORP	Turb	DO	Depth to Water from TOC	Pump Rate
05/13/08	1410	0	6.71	737	28.06	-98.4	451	0.93		1 LPM
	1415	5	6.71	745	27.42	-50.2	168	1.03		
	1420	10	6.71	749	27.21	-41.1	54	1.18		
	1425	15	6.71	745	27.24	-48.2	23	1.17		
	1430	20	6.71	741	27.26	-50.6	18	1.16		
	1435	25	6.71	740	27.36	-55.5	14	1.15		
	1440	30	6.71	739	27.23	-56.3	10	1.15		
	1445	35	6.71	736	27.27	-56.9	11	1.13		
05/13/08	1450	40	6.71	735	27.07	-57.3	10	1.13		1 LPM

COMMENTS Well good/stable. Collected sample @ 1455.

SIGNATURE [Signature]



WELL ID MW-64B
WELL/SITE DESCRIPTION _____

SAMPLE NO. G-03-08-mw-14B

DATE 05/13/88

TIME 1315

AIR TEMP. ~ 90°F

WELL DEPTH _____ ft

WATER DEPTH artesian ft

WATER COL. HEIGHT _____ ft

EQUIVALENT VOLUME OF STANDING WATER _____

PUMP RATE _____

PUMP TIME _____

WELL WENT DRY? () Yes (X) No

VOL REMOVED _____ (gal) (L)

PURGE AGAIN? () Yes (/) No

CASING HEIGHT ~ 2.5 ft

WELL DIAMETER 2 1/2 in

SANDPACK DIAM. _____ in

(gal) (L)

_____ (gpm) (lpm)

min

PUMP TIME 30 min

RECOVERY TIME _____ min

TOTAL VOL. REMOVED 7.5 (gal) (L)

COMMENTS Collected sample @ 1400. @
well good / stable
water level remained above ground surface - Artesian
well has sulfur odor.

SIGNATURE [Signature]



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID MW-15A
WELL/SITE DESCRIPTION _____

SAMPLE NO. G-03-08-MW-15A

DATE 05/14/08

TIME 1300

AIR TEMP. 79.0°F

WELL DEPTH 40 ft ft CASING HEIGHT _____ ft
WATER DEPTH 15.30 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.75 → 1.0 (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 40 min
VOL REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 10 (gal) (L)

Date	Time	Volume Removed	pH	Cond	Temp	ORP	Turb	DO	Depth to Water from TOC	Pump Rate
5/14	1312	—	6.61	910	28.17	-130.5	200	1.46		0.75
	1316	4	6.61	909	28.06	-137.3	180	1.39		1
	1320	8	6.61	908	28.04	-140.5	89	1.35		1
	1324	12	6.62	906	27.99	-139.4	77	1.32		1
	1328	16	6.62	902	27.88	-142.5	52	1.28		1
✓	1332	20	6.62	902	28.00	-146.0	50	1.27		1
	1336	24	6.62	901	28.02	-144.3	45	1.25		1
	1340	28	6.61	897	27.99	-143.8	25	1.22		1
	1344	32	6.61	897	27.94	-141.9	23	1.22		1
	1348	36	6.62	897	28.02	-144.9	24	1.21		1

COMMENTS Collected sample at 1350.

SIGNATURE by M. H.



PURGING LOGBOOK FORM GROUNDWATER SAMPLES

SAMPLE NO. G-03-08-MW/EA

AIR TEMP. ~90°F

WELL DEPTH _____ ft CASING HEIGHT ~2.5 ft
WATER DEPTH 14.90 ft WELL DIAMETER 2" in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 6.5 (gal) (L)

COMMENTS Well good / stable. Not completely clear, slightly turbid. Collected sample @ 155

SIGNATURE Jim R. [Signature]



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID MW-16B
WELL/SITE DESCRIPTION _____

SAMPLE NO. G-03-08-M(1)-16B

DATE 5 1 13 1 08

TIME 1515

AIR TEMP. 80°F +

WELL DEPTH _____	ft	CASING HEIGHT _____	ft
WATER DEPTH <u>15.92</u>	ft	WELL DIAMETER <u>2</u>	in
WATER COL. HEIGHT _____	ft	SANDPACK DIAM. _____	in
EQUIVALENT VOLUME OF STANDING WATER _____	(gal) (L)		
PUMP RATE _____	(gpm) (lpm)	<u>1.0</u>	
PUMP TIME _____	min		
WELL WENT DRY? () Yes (X) No		PUMP TIME <u>20</u>	min
VOL. REMOVED _____ (gal) (L)		RECOVERY TIME _____	min
PURGE AGAIN? () Yes (X) No		TOTAL VOL. REMOVED <u>7</u> (gal) (L)	

[illegible]

COMMENTS

Collected sample at 1550

SIGNATURE

My mother



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID MW-17A
WELL/SITE DESCRIPTION _____

SAMPLE NO. G-03-08-MW-17A

DATE 05/13/08

TIME 1054

AIR TEMP. 90°F

WELL DEPTH 46 ft
WATER DEPTH 7.65 ft
WATER COL. HEIGHT _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.5 → 0.8 (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No
VOL. REMOVED _____ (gal) (L)
PURGE AGAIN? () Yes (X) No
CASING HEIGHT Flush ft
WELL DIAMETER 2 in
SANDPACK DIAM. _____ in
PUMP TIME 45 min
RECOVERY TIME _____ min
TOTAL VOL. REMOVED 34.5 (gal) (L)

Date	Time	Volume Removed	pH	Cond	Temp	ORP	Turb	DO	Depth to Water from TOC	Pump Rate
5/13/08	1100	—	6.48	618	30.58	-81.1	794	0.67	7.65	0.5 LPM
	1105	2.5	6.48	620	30.74	-57.0	643	0.66		0.8 LPM
	1110		6.48	619	30.48	-35.3	392	0.68		
	1115		6.48	615	30.15	-26.8	156	0.61		
	1120		6.48	614	30.01	-24.5	143	0.65		
	1125		6.47	612	29.98	-25.4	63	0.79		
	1130		6.47	611	29.98	-25.7	21	0.80		
	1135		6.47	611	29.93	-25.3	15	0.89		
	1140		6.48	611	29.98	-26.2	14	0.90		
5/13/08	1145		6.48	612	29.96	-26.9	14	0.91		0.8 LPM

COMMENTS Well good/stable. Collected sample @ 1150.
Duplicate (08-MA-13-PP2).

SIGNATURE _____



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID NW-18A
WELL/SITE DESCRIPTION _____

SAMPLE NO. 6-03-08-MW-18A

DATE 5.13.08 TIME 1330 AIR TEMP. 90°F

WELL DEPTH 45 ft CASING HEIGHT flush ft
WATER DEPTH 14.35 ft WELL DIAMETER 2 in
WATER COL HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 227 min
VOL REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 28 (gal) (L)

[illegible]

COMMENTS

Sample Total = 1405

No odor. Turbid for \approx
20 mins

SIGNATURE

William Barry



WELL ID MW-18B SAMPLE NO. G-03-08-MW-18B
WELL/SITE DESCRIPTION _____

DATE 5, 13, 08 TIME 1420 AIR TEMP. 90°F

WELL DEPTH 62 ft
WATER DEPTH 7.48 ft
WATER COL. HEIGHT _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No
VOL. REMOVED _____ (gal) (L)
PURGE AGAIN? () Yes (X) No

CASING HEIGHT flush ft
WELL DIAMETER 2 in
SANDPACK DIAM. _____ in
PUMP TIME 35 min
RECOVERY TIME _____ min
TOTAL VOL. REMOVED ~8 (gal) (L)

[illegible]

COMMENTS Poor producer. No odor. Sample Time = 1510

SIGNATURE William K. Hays



WELL ID MW-19A
WELL/SITE DESCRIPTION _____

SAMPLE NO. G-03-08-MW-19A

DATE 5/13/08

TIME 1400

AIR TEMP. 70° F 7

CASING HEIGHT _____ **ft**

WELL DIAMETER 2 in

SANDPACK DIAM. _____ in

(gal) (L)

0.5 (gpm) (lpm)

min

PUMP TIME 20 min

RECOVERY TIME _____ min

TOTAL VOL. REMOVED 27 (gal) (L)

COMMENTS Collected sample at 1430

SIGNATURE

by Mr



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID mw19B
WELL/SITE DESCRIPTION _____

SAMPLE NO. 6-03-08-MW-19B

DATE 5-13-08

TIME 1315

AIR TEMP. 80°F.

WELL DEPTH _____	ft	CASING HEIGHT _____	ft
WATER DEPTH _____	ft	WELL DIAMETER _____	in
WATER COL. HEIGHT _____	ft	SANDPACK DIAM. _____	in
EQUIVALENT VOLUME OF STANDING WATER _____	(gal) (L)		
PUMP RATE _____	(gpm) (lpm)		
PUMP TIME _____	min		
WELL WENT DRY? () Yes (X) No		PUMP TIME _____	min
VOL. REMOVED _____ (gal) (L)		RECOVERY TIME _____	min
PURGE AGAIN? () Yes (X) No		TOTAL VOL. REMOVED _____	(gal) (L)

[illegible]

COMMENTS

Collected sample at 1350

SIGNATURE

by *W. B. E. B.*



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID MW-20
WELL/SITE DESCRIPTION _____

SAMPLE NO. 6-03-08-MW-20

DATE 5, 13, 08

TIME 0840

AIR TEMP. 85°F

WELL DEPTH 50 ft
WATER DEPTH ~~50~~ 14.90 ft
WATER COL HEIGHT _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____

CASING HEIGHT 2.5 ft
WELL DIAMETER 2 in
SANDPACK DIAM. _____ in
_____ (gal) (L)
1.0 (gpm) (lpm)

PUMP RATE _____
PUMP TIME _____
WELL WENT DRY? () Yes (X) No
VOL REMOVED _____ (gal) (L)
PURGE AGAIN? () Yes (X) No

PUMP TIME 22 min
RECOVERY TIME _____ min
TOTAL VOL. REMOVED 24 (gal) (L)

[illegible]

COMMENTS

Sample Time - 0935

MS/MSO collected,

No odor

SIGNATURE

William R. Hines



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID MW-21
WELL/SITE DESCRIPTION _____

SAMPLE NO. 6-03-08 MW-21

DATE 5/13/08

TIME 1050

AIR TEMP. 80°F +

WELL DEPTH _____ ft
WATER DEPTH 12.61 ft
WATER COL. HEIGHT _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.5 (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? ☐ Yes ☒ No
VOL. REMOVED _____ (gal) (L)
PURGE AGAIN? ☐ Yes ☒ No
PUMP TIME 50 min
RECOVERY TIME _____ min
TOTAL VOL. REMOVED 10 (gal) (L)

Date	Time	Volume Removed	pH	MS/cm	°C	ORP	NTU	mg/L	Depth to Water from TOC	L/min Pump Rate
5/13	1106	—	7.45	764	28.31	82.0	289.4	1.21		0.5
	1110	2	6.67	783	28.00	105.3	197.1	0.72		0.5
	1114	4	7.21	787	27.91	11.3	132.7	0.36		0.5
	1118	6	6.67	789	27.92	35.7	88.4	0.29		0.5
	1122	8	6.67	798	27.89	46.2	95.2	0.24		0.5
	1126	10	6.59	798	27.92	55.9	110.9	0.29		0.5
	1130	12	6.64	824	28.30	61.2	140.0	2.88		0.5
	1134	14	6.65	830	28.33	43.9	115.5	3.00		0.5
	1138	16	6.65	827	28.46	72.0	81.7	3.45		0.5
✓	1142	18	6.63	827	28.41	78.3	79.1	3.49		0.5
	1146	20	6.60	828	28.42	87.6	56.0	3.97		0.5
	1150	22	6.59	826	28.40	92.9	21.1	3.93		0.5
	1154	24	6.58	825	28.41	94.1	4.0	4.00		0.5

COMMENTS Collected sample at 1158.

SIGNATURE

[Signature]



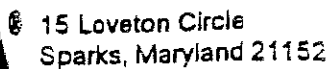
WELL ID M4-22 SAMPLE NO. G-03-08-MW-22
WELL/SITE DESCRIPTION _____ 08-MA-13-DP

DATE 5/13/08 TIME 815 AIR TEMP. 80°F +

WELL DEPTH	<u>45</u>	ft	CASING HEIGHT	_____	ft
WATER DEPTH	<u>9.60</u>	ft	WELL DIAMETER	<u>2</u>	in
WATER COL. HEIGHT	_____	ft	SANDPACK DIAM.	_____	in
EQUIVALENT VOLUME OF STANDING WATER	_____				(gal) (L)
PUMP RATE	<u>0.5</u>				(gpm) (lpm)
PUMP TIME	_____				min
WELL WENT DRY?	() Yes (X) No		PUMP TIME	<u>~25</u>	min
VOL. REMOVED	_____ (gal) (L)		RECOVERY TIME	_____	min
PURGE AGAIN?	() Yes (X) No		TOTAL VOL. REMOVED	<u>7</u> (gal) (L)	

COMMENTS Collected sample at 9/10 + Field Duplicate

SIGNATURE by M. J. [Signature]



WELL ID MW-23 SAMPLE NO. 6-03-08-MW-23
WELL/SITE DESCRIPTION _____

DATE 5.13.08 TIME 1114 AIR TEMP. 90°F

WELL DEPTH 33 ft CASING HEIGHT Flush ft
WATER DEPTH 5.60' (Under pressure) WELL DIAMETER 2 in
WATER COL. HEIGHT _____ SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 22 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~28 (gal) (L)

[illegible]

COMMENTS

Sample Time = 1/35

No order

SIGNATURE

W. A. Clark

081



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID MW-24 SAMPLE NO. G-03-08-MW-24
WELL/SITE DESCRIPTION _____

DATE 05/13/08 TIME 0840 AIR TEMP. ~85°F

WELL DEPTH _____ ft CASING HEIGHT F1054 ft
WATER DEPTH 4.42 ft WELL DIAMETER 2" in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.5 (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 50 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~6.5 (gal) (L)

Date	Time	Volume Removed	pH	Cond	Temp	ORP	Turb	DO	Depth to Water from TOC	Pump Rate
5/13/08	0850	0	7.66	610	30.28	-168.8	102.1	0.57	4.42	0.5 LPM
	0855	2.5	7.39	619	30.32	-172.6	95.5	0.56	5.29	
	0900	5.0	7.34	621	30.33	-165.6	78.3	0.55	7.86	
	0905	7.5	7.07	636	30.35	-148.6	69.4	0.57	8.19	
	0910	10	6.89	615	30.29	-121.5	48.3	0.63	9.24	
	0915	12.5	6.91	621	30.29	-130.6	19.6	0.64	9.88	
	0920	15	6.88	610	30.32	-135.0	11.5	0.66		
	0925	17.5	6.87	606	30.31	-130.1	10.6	0.67		
	0930	20	6.88	605	30.33	-130.7	10.3	0.68		
	0935	22.5	6.88	605	30.31	-129.8	10.7	0.69	↓	↓
✓	0940	25	6.89	606	30.29	-128.3	10.2	0.68	9.88	0.5 LPM
5/13/08										

COMMENTS Collected Sample @ 0930. Well good / stable.

SIGNATURE [Signature]



WELL ID 63-09-mw-6b SAMPLE NO. 09-JA-06-DP1 collected here
WELL/SITE DESCRIPTION good

DATE 1 / 6 / 09 TIME 14:30 AIR TEMP. _____

WELL DEPTH _____ ft CASING HEIGHT N/A - flush mount ft
WATER DEPTH 8.42 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 _____ (gpm) (LPM)
PUMP TIME 321 _____ min
WELL WENT DRY? () Yes (☒) No PUMP TIME 20 _____ min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes () No TOTAL VOL. REMOVED 321 (gal) (L)

[illegible]

COMMENTS grow/stable * 09-JA-06-0P1 was collected here; VOCs only.

Sampled @ 15:00

SIGNATURE

Good Meadows



WELL ID G-03-09-mw-7B SAMPLE NO. _____

WELL/SITE DESCRIPTION good

DATE 1 / 6 / 09 TIME 15:10 AIR TEMP.

WELL DEPTH _____ ft CASING HEIGHT N/A - flush mount ft
 WATER DEPTH 4.70 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE 1.0 _____ ~~(gpm)~~ (LPM)
 PUMP TIME 22 _____ min
 WELL WENT DRY? () Yes (☒) No PUMP TIME 22 _____ min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (☒) No TOTAL VOL. REMOVED 321 ~~(gal)~~ (L)

[illegible]

COMMENTS good/stable

Sampled @ 15:40

SIGNATURE Luci Mendonça



WELL ID MW-11A SAMPLE NO. 6-03-09-MW-11A
WELL/SITE DESCRIPTION _____

DATE 1/16/09 TIME 1430 AIR TEMP. 85°F

WELL DEPTH _____ ft CASING HEIGHT _____ ft
WATER DEPTH 7.36 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (☒) No PUMP TIME ~ 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (☒) No TOTAL VOL. REMOVED ~ 28 (gal) (L)

[illegible]

COMMENTS

Sample Time: 15/5

- All good/stable.
 - Natural Illumination Sampling
 well -

SIGNATURE

Walter Hamr



WELL ID MW-11B SAMPLE NO. 6-03-09-MW-11B
WELL/SITE DESCRIPTION _____

DATE 1 / 6 / 09 TIME 1520 AIR TEMP. 85°F

WELL DEPTH _____ ft CASING HEIGHT _____ ft
WATER DEPTH 6.87 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (☒) No PUMP TIME ≈ 22 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (☒) No TOTAL VOL. REMOVED ≈ 30 (gal) (L)

COMMENTS

Sample Time = 1550 All good/stable

SIGNATURE

Robert King



WELL ID MW-12 A SAMPLE NO. 6-23-09-MW12A
WELL/SITE DESCRIPTION Ft Buchanan

DATE 1/7/09 TIME 1250 AIR TEMP. 80

WELL DEPTH _____ ft CASING HEIGHT flush ft
WATER DEPTH 5.99 ft WELL DIAMETER _____ in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE .3 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~ 27 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 2.5 (gal) (L)

[illegible]

COMMENTS collect sample 1320

SIGNATURE



WELL PURGING AND SAMPLING RECORD

WELL ID G-03-09-MW-128 SAMPLE NO. _____

WELL/SITE DESCRIPTION good

DATE 1 / 7 / 09 TIME 12:45 AIR TEMP. _____

WELL DEPTH _____ ft CASING HEIGHT N/A - flush mount ft
 WATER DEPTH 5.95 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE 1.0 (gpm) (LPM)
 PUMP TIME 25 min
 WELL WENT DRY? () Yes (☒) No PUMP TIME 26 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (☒) No TOTAL VOL. REMOVED 25 (gal) (L)

Date	Time	Volume Removed Unit: L	pH	Cond. mS/cm ²	Temp. °C	ORP mV	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate L/min
1/7/09	12:54	1.0	7.45	0.952	26.39	-3.3	71000	0.02	6.07	1.0
	12:58	5.0	7.21	0.972	26.33	-12.5	430	0.01	6.07	
	13:02	9.0	7.18	0.967	26.32	-15.4	160	0.01	6.08	
	13:06	13.0	7.16	0.962	26.30	-17.8	85.4	0.01	6.07	
	13:10	17.0	7.15	0.958	26.31	-18.1	45.1	0.01	6.07	
	13:14	21.0	7.14	0.954	26.30	-17.6	21.2	0.01	6.07	
	13:18	25.0	7.14	0.952	26.28	-17.2	10.3	0.01	6.07	

COMMENTS good/stable

Sampled @ 13:20

SIGNATURE Lidia Mendez



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW-13A SAMPLE NO. G-03-09-MW-13A
WELL/SITE DESCRIPTION Ft Buchanan

DATE 1/17/09 TIME 1335 AIR TEMP. 80

WELL DEPTH _____ ft CASING HEIGHT Flush ft
WATER DEPTH 5.39 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.3 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 2.5 (gal) (L)

Date	Time	Volume Removed Unit: gal	pH	Cond. µm/cm	Temp. C	ORP	Turb.	DO mg/L	Depth to Water from TOC	Pump Rate mL/min
1/17	1335	0.3	6.68	0.534	30.09	27.3	71000	0.96	5.39	300
	1340		6.39	0.562	30.48	35.6	-	0.20	5.48	
	1345		6.36	0.563	30.89	41.9	4000	0.13	-	
	1350		6.35	0.558	30.52	42.5	117	0.11	5.50	
	1355		6.35	0.552	30.41	37.0	71.8	0.10	-	
	1400		6.35	0.551	30.48	36.4	72.8	0.10	5.50	
	1405	2.5	6.35	0.551	30.54	35.9	69.1	0.09	-	

COMMENTS collect sample 1410

SIGNATURE

WELL PURGING AND SAMPLING RECORD

WELL ID G-03-09-MW-13B SAMPLE NO. _____

WELL/SITE DESCRIPTION _____

DATE 1/7/09 TIME 13:30 AIR TEMP. _____

WELL DEPTH _____ ft CASING HEIGHT N/A - Flush mount ft
 WATER DEPTH 5.74 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE 1.0 ~~(gpm)~~ (LPM)
 PUMP TIME 29 min
 WELL WENT DRY? () Yes ☒ No PUMP TIME 30 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes ☒ No TOTAL VOL. REMOVED 29 ~~(gal)~~ (L)

Date	Time	Volume Removed Unit: L	pH	Cond. mS/cm	Temp. °C	ORP mV	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate L/min
1/7/09	13:40	1.0	8.30	0.730	29.30	58.6	>1000	0.01	5.75	1.0
	13:44	5.0	7.17	0.985	28.50	47.7	760	0.01	5.74	
	13:48	9.0	6.99	1.031	28.46	51.2	400	0.01	5.74	
	13:52	13.0	6.94	1.053	28.43	51.1	310	0.01	5.74	
	13:56	17.0	6.91	1.064	28.39	50.2	230	0.01	5.74	
	14:00	21.0	6.89	1.069	28.34	50.1	200	0.01	5.74	
	14:04	25.0	6.90	1.071	28.31	50.0	195	0.01	5.74	
	14:08	29.0	6.89	1.072	28.29	50.1	190	0.01	5.74	

COMMENTS good/stable

Sample at 14:10

SIGNATURE Sadie Mendoza



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID MW-15 SAMPLE NO. 0-03-09-MW-15

WELL/SITE DESCRIPTION _____

DATE 1/7/09 TIME 1245 AIR TEMP. 85°F

WELL DEPTH _____ ft CASING HEIGHT 2 ft
 WATER DEPTH 15.51 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE 1.0 (gpm) (LPM)
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (✓) No PUMP TIME ~34 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (✓) No TOTAL VOL. REMOVED ~40 (gal) (L)

Date	Time	Volume Removed Unit: (2 gal/h)	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate L/min
1/7/09	1258	—	7.01	0.910	27.42	-80	1000	0.71	15.55	1.0
	1302	4	6.82	0.905	27.34	-56	381	0.27	15.48	
	1306	8	6.80	0.905	27.34	-54	290	0.22	15.36	
	1310	12	6.79	0.906	27.44	-54	187	0.18	15.35	
	1314	16	6.75	0.905	27.43	-50	150	0.12	15.35	
	1318	20	6.74	0.904	27.37	-46	100	0.09		
	1322	24	6.74	0.904	27.38	-46	72	0.09		
	1326	28	6.73	0.904	27.40	-48	70	0.10		
	1330	32	6.73	0.904	27.40	-50	70	0.10		

COMMENTS

Sample Time = 1330

* 09-SA-07-DP2

Collected; VOL + N/A

SIGNATURE

William R. [Signature]



WELL ID MW-16A SAMPLE NO. G-03-09-MW-16A
WELL/SITE DESCRIPTION FF Borehole

DATE 1/7/09 TIME 1040 AIR TEMP. 50

WELL DEPTH _____ ft CASING HEIGHT _____ ft
WATER DEPTH 14.88 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.3 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (☒) No PUMP TIME 25 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (☒) No TOTAL VOL. REMOVED 2 (gal) (L)

[illegible]

COMMENTS collect sample 1110

SIGNATURE

SIGNATURE W. H. Allen



WELL PURGING AND SAMPLING RECORD

WELL ID G-03-09-MV-16B SAMPLE NO. _____
WELL/SITE DESCRIPTION good / locked

DATE 1 / 7 / 09 TIME 10:40 AIR TEMP. _____

WELL DEPTH _____ ft CASING HEIGHT ≈ 3 ft
WATER DEPTH 15.96 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME ≈ 21 min
WELL WENT DRY? () Yes ☒ No PUMP TIME 22 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes ☒ No TOTAL VOL. REMOVED 21 (gal) (L)

Date	Time	Volume Removed	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate
		Unit: L	pH	ns/cm ²	°C	mV	NTU	mg/L		L/min
1/7/09	10:46	1.0	7.34	1.057	27.22	-80.4	>1000	0.01	16.03	1.0
	10:50	5.0	7.28	0.962	27.08	-152.2	150	0.01	16.03	
	10:54	9.0	7.18	0.952	27.07	-136.5	23.3	0.01	16.03	
	10:58	13.0	7.11	0.944	27.04	-115.3	7.9	0.01	16.03	
	11:02	17.0	7.09	0.941	27.06	-110.6	6.3	0.01	16.03	
<u>✓</u>	11:06	21.0	7.07	0.939	27.05	-106.2	4.4	0.01	16.03	<u>✓</u>

COMMENTS good / stable

Sampled @ 11:10

SIGNATURE Lauri Meadows



WELL ID MW-22 SAMPLE NO. G-03-09-141-20
WELL/SITE DESCRIPTION F+ Bochu

DATE 1/7/59 TIME 0920 AIR TEMP. 80

WELL DEPTH _____ ft CASING HEIGHT 2.5-3 ft
WATER DEPTH 14.84 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.300 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 32 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 2.5 (gal) (L)

[illegible]

COMMENTS collect sample 0955

SIGNATURE

[Signature]

WELL PURGING AND SAMPLING RECORD

WELL ID MW-22 SAMPLE NO. G-03-09-MW-22
WELL/SITE DESCRIPTION Ft Buchanan

DATE 1/16/09 TIME 1435 AIR TEMP. 80

WELL DEPTH _____ ft CASING HEIGHT 2.5-3 ft
WATER DEPTH 9.36 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.3 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes ☒ No PUMP TIME ~26 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes ☒ No TOTAL VOL. REMOVED 2.5 (gal) (L)

Date	Time	Volume Removed Unit: <u>gal</u>	pH	Cond. <u>µm/cm</u>	Temp. <u>C</u>	ORP	Turb.	DO <u>mg/L</u>	Depth to Water from TOC	Pump Rate <u>µm/cm</u>
1/16	1435	0.3	7.12	0.516	29.07	154.4	908	1.21	9.36	300
	1440	↓	6.42	0.511	29.00	149.6	-	0.19	-	↓
	1445	↓	6.79	0.507	29.08	145.1	113	0.14	9.61	↓
	1450	↓	6.75	0.501	29.15	136.0	41.4	0.16	-	↓
	1455	↓	6.75	0.501	29.16	135.1	39.9	0.17	9.63	↓
	1500	2.5	6.75	0.500	29.15	134.8	39.0	0.17	-	↓

COMMENTS collect sample 1505

SIGNATURE [Signature]



WELL PURGING AND SAMPLING RECORD

WELL ID 6-03-09-MW-23

WELL/SITE DESCRIPTION good

SAMPLE NO.

DATE 11/7/09

TIME 8:35

AIR TEMP.

WELL DEPTH

WATER DEPTH 5.68

WATER COL. HEIGHT _____ ft

EQUIVALENT VOLUME OF STANDING WATER

PUMP RATE 1.0

PUMP TIME 221

WELL WENT DRY? () Yes (X) No

VOL. REMOVED _____ (gal) (L)
PURGE AGAIN _____

PURGE AGAIN? () Yes (X) No

CASING HEIGHT N/A - Plughead ft

WELL DIAMETER 2 in

SANDPACK DIAM. _____ in
_____ in

(gal) (L)

(gpm) (LPM)

PUMP TIME 222 min

RECOVERY TIME _____ min

TOTAL VOL. REMOVED 21 (gal) (L)

[illegible]

COMMENTS good/stable

Sampled @ 9:10

SIGNATURE

SIGNATURE Lisa Meadows



WELL ID MW-24 SAMPLE NO. G-03-09-MW-24
WELL/SITE DESCRIPTION Fr Buchanan


DATE 1/6/09 TIME 1525 AIR TEMP. 80

WELL DEPTH _____ ft CASING HEIGHT 2.5-3 ft
WATER DEPTH 3.09 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.5 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 32 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 2 (gal) (L)

[illegible]

COMMENTS collect sample 6 + 09-JA-06-DA2 1600

SIGNATURE

SIGNATURE 



WELL ID MW-25 SAMPLE NO. E-03-09-MW-25 (MS/MSD)
WELL/SITE DESCRIPTION _____

DATE 1/7/09 TIME 0830 AIR TEMP. 80°F

WELL DEPTH _____ ft CASING HEIGHT 2.7 ft
WATER DEPTH 15.25 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 230 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 236 (gal) (L) 11

[illegible]

COMMENTS

Sample Time = 0920

MS/MSD performed on
full suite analyses

SIGNATURE

William R. Hay



WELL ID MW-26 SAMPLE NO. 6-03-09-MW-26
WELL/SITE DESCRIPTION _____

DATE 1, 7, 09 TIME 1015 AIR TEMP. 85°F

WELL DEPTH _____ ft CASING HEIGHT 2.5 _____ ft
WATER DEPTH 15.25 _____ ft WELL DIAMETER 2 _____ in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (☒) No PUMP TIME ~ 30 _____ min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (☒) No TOTAL VOL. REMOVED ~ 36 _____ (gal) (L)

[illegible]

COMMENTS

Sample Time = 100

~~A~~ 09-JA-07-DP
collected

SIGNATURE

Walter D. Farnham



WELL ID G-07-09-0P-1 (0P-1) SAMPLE NO. _____
WELL/SITE DESCRIPTION good/locked

DATE 1 / 6 / 07 TIME 11:05 AIR TEMP.

WELL DEPTH _____ ft CASING HEIGHT ≈ 2.5 ft
WATER DEPTH 12.05 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 ~~(gpm)~~ (LPM)
PUMP TIME ≈ 29 _____ min
WELL WENT DRY? () Yes (☒) No PUMP TIME ≈ 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes () No TOTAL VOL. REMOVED 229 ~~(gal)~~ (L)

[illegible]

COMMENTS good/stable

Sampled @ 11:45

SIGNATURE

SIGNATURE Carla Meadows

WELL PURGING AND SAMPLING RECORD

WELL ID OP-2 SAMPLE NO. 6-03-09-OP-2
WELL/SITE DESCRIPTION _____

DATE 1/6/09 TIME 1040 AIR TEMP. 85°F

WELL DEPTH 13 ft CASING HEIGHT ~25 ft
WATER DEPTH 2.23 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~35 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~40 (gal) (L)

Date	Time	Volume Removed Unit: <u>(2 gal)</u>	pH	Cond.	Temp. °C	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate L/min
1/6/09	1102	—	7.37	1.380	25.70	-66	>1000	2.23	2.36	1.0
	1106	4	7.26	1.450	25.76	-68	>1000	0.56	2.36	
	1110	8	7.16	1.511	25.73	-58	550	0.41	2.36	
	1114	12	7.11	1.522	25.76	-54	150	0.28	2.35	
	1118	16	7.08	1.527	25.75	-53	100	0.21		
	1122	20	7.08	1.528	25.73	-50	60	0.19		
	1126	24	7.06	1.530	25.75	-49	40	0.17		
	1130	28	7.05	1.528	25.75	-48	39	0.17		
	1134	32	7.05	1.528	25.74	-48	39	0.16		

COMMENTS

Sample Time = 1140

Sampled for natural
attenuation parameters.

SIGNATURE

William D. Haney



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID OP-3 SAMPLE NO. G-03-09-OP-3
WELL/SITE DESCRIPTION Ft Buchanan

DATE 1/6/09 TIME 1145 AIR TEMP. 40

WELL DEPTH _____ ft CASING HEIGHT 2.5-3 ft
WATER DEPTH 9.28 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.3 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 45 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 5 (gal) (L)

Date	Time	Volume Removed Unit: <u>gal</u>	pH	Cond. <u>ug/cm</u>	Temp. <u>c</u>	ORP	Turb.	DO <u>mg/L</u>	Depth to Water from TOC	Pump Rate <u>mg/min</u>
1/6	1145	0.5	7.14	1.726	26.58	157.2	71000	0.50	9.28	300
	1150		6.99	1.276	26.28	157.3	-	0.35	-	
	1155		6.94	1.245	26.28	149.1	44.0	0.17	9.30	
	1200		6.91	1.232	26.28	145.4	-	0.13	-	
	1205		6.89	1.224	26.21	143.1	9.4	0.11	9.30	
	1230		6.89	1.220	26.21	140.1	-	0.10	-	
	1235	3.0	6.89	1.220	26.22	140.3	5.2	0.10	-	

COMMENTS collect sample 1240

SIGNATURE



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID G03-09 OP-04 SAMPLE NO. _____
WELL/SITE DESCRIPTION good (locked)

DATE 1/6/09 TIME 9:50 AIR TEMP. _____

WELL DEPTH _____ ft CASING HEIGHT ≈ 2 ft
WATER DEPTH 5.53 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME ≈ 25 min
WELL WENT DRY? () Yes (X) No PUMP TIME ≈ 25 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ≈ 25 (gal) (L)

Date	Time	Volume Removed Unit: L	pH	Cond. mS/cm ^c	Temp. °C	ORP mV	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate L/min
1/6/09	10:00	1.0	7.10	1.578	25.55	145.9	71000	0.01	5.70	1.0
	10:00	5.0	7.05	1.569	25.56	123.4	71000	0.03	5.72	
	10:04	9.0	7.03	1.535	25.62	96.1	450	0.02	5.72	
	10:18	13.0	7.02	1.524	25.36	80.2	60.0	0.02	5.72	
	10:22	17.0	7.01	1.526	25.34	66.8	18.9	0.02	5.73	
	10:26	21.0	7.00	1.525	25.33	60.7	10.7	0.02	5.73	
	10:30	25.0	7.01	1.524	25.30	58.3	9.0	0.02	5.73	

COMMENTS good/stable

Sampled @ 10:40

SIGNATURE Lance Meadows

WELL PURGING AND SAMPLING RECORD

WELL ID OP-5 SAMPLE NO. G-03-09-OP-5
WELL/SITE DESCRIPTION P7 Berman

DATE 1/16/09 TIME 1010 AIR TEMP. 40

WELL DEPTH _____ ft CASING HEIGHT 25.3 ft
WATER DEPTH 5.85 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 26 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 2.5 (gal) (L)

Date	Time	Volume Removed Unit: <u>gal</u>	pH	Cond. <u>us/cm</u>	Temp. <u>C</u>	ORP	Turb.	DO <u>mg/L</u>	Depth to Water from TOC	Pump Rate
<u>1/16</u>	<u>1010</u>	<u>0.3</u>	<u>6.84</u>	<u>1.221</u>	<u>27.93</u>	<u>213.0</u>	<u>147</u>	<u>0.76</u>	<u>5.85</u>	<u>300 gpm</u>
	<u>1015</u>		<u>6.94</u>	<u>1.084</u>	<u>27.37</u>	<u>204.6</u>	<u>-</u>	<u>0.22</u>	<u>-</u>	
	<u>1020</u>		<u>6.95</u>	<u>1.087</u>	<u>27.27</u>	<u>201.8</u>	<u>264</u>	<u>0.12</u>	<u>5.91</u>	
	<u>1025</u>		<u>6.96</u>	<u>1.080</u>	<u>27.18</u>	<u>192.1</u>	<u>264</u>	<u>0.07</u>	<u>-</u>	
	<u>1030</u>		<u>6.96</u>	<u>1.071</u>	<u>27.30</u>	<u>190.4</u>	<u>259</u>	<u>0.07</u>	<u>-</u>	
	<u>1035</u>	<u>2.5</u>	<u>6.96</u>	<u>1.050</u>	<u>27.38</u>	<u>189.6</u>	<u>269</u>	<u>0.08</u>	<u>5.93</u>	

COMMENTS collected sample 1040

SIGNATURE [Signature]

WELL PURGING AND SAMPLING RECORD

WELL ID MW5A SAMPLE NO. 6-03-09-MW5A
WELL/SITE DESCRIPTION _____

DATE 3/11/09 TIME 835 AIR TEMP. 80°F

WELL DEPTH 37.90 ft CASING HEIGHT flush ft
WATER DEPTH 32.95 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 32 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 22 (gal) (L)

24 liters +

Date	Time	Volume Removed Unit: L	pH	ms/cm Cond.	°C Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate L/min
3/11	852	-	6.68	0.717	29.58	85.0	1000+	2.72	33.01	1.0
	856	4	6.67	0.712	29.86	84.5	118	2.78	33.01	1.0
	900	8	6.73	0.711	29.79	80.8	47.3	2.47	33.00	1.0
	904	10	6.74	0.714	30.18	76.3	31.8	2.55	32.99	0.5
	908	12	6.84	0.717	30.26	76.0	29.5	2.48	32.99	0.5
▽	912	14	7.24	0.713	30.03	64.9	19.7	2.57	32.99	0.5
	916	16	6.80	0.715	30.30	61.5	16.5	2.56	32.99	0.5
	920	18	6.80	0.714	30.09	55.7	10.4	2.54	32.99	0.5
	924	20	6.79	0.712	30.07	51.3	7.92	2.47	32.99	0.5

COMMENTS Well was full of water. Removed prior to opening well. Collected sample at 925 + MS/MSD.

SIGNATURE by M.A.



PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID MW 5B
WELL/SITE DESCRIPTION _____

SAMPLE NO. 6-03-09-MUSB

DATE 31 10 1 09

TIME 1300

AIR TEMP. 80°F

WELL DEPTH 65-25 ft
WATER DEPTH 23.42 ft
WATER COL HEIGHT ft
EQUIVALENT VOLUME OF STANDING WATER gal
PUMP RATE gpm

CASING HEIGHT flush ft
WELL DIAMETER 2 in
SANDPACK DIAM. _____ in
1.0 - 0.5 (gal) (L)
(gpm) (lpm)

WELL WENT DRY? () Yes (X) No
VOL. REMOVED _____ (gal) (L)
PURGE AGAIN? () Yes (X) No

PUMP TIME 24 min
RECOVERY TIME _____ min
TOTAL VOL. REMOVED 22 (gal) (L)

COMMENTS Collected sample at 1354

SIGNATURE



**PURGING LOGBOOK FORM
GROUNDWATER SAMPLES**

WELL ID MW-68
WELL/SITE DESCRIPTION _____

SAMPLE NO. 6-03-09-MUR

DATE 31 10 09

TIME 1410

AIR TEMP. 80°F

WELL DEPTH 50.10 ft

CASING HEIGHT *flush*

WATER DEPTH 8.60

CASING HEIGHT 71-501
WELL DIAMETER 2

WATER COL. HEIGHT _____

WELL DIAMETER _____
SANDPACK DIAM _____

EQUIVALENT VOLUME OF STANDING WATER

SANDPACK DIAM. _____ in

PUMP RATE _____ (gal) (L)

PUMP TIME _____ (gpm)(lpm)

WELL WENT DRY? () Yes (X) No

PUMP TIME 20 min

VOL. REMOVED _____ (gal) (L)

RECOVERY TIME _____ min

PURGE AGAIN? ☐ Yes ☒ No

TOTAL VOL. REMOVED 2.8 (gal) (L)

COMMENTS Collected sample at ~~1450~~^{SR} 1444.

SIGNATURE

SOP: 016, Revision 2

July 19



PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID M40813
WELL/SITE DESCRIPTION

SAMPLE NO. G-03-09-MWFB

DATE 31 10 1 09

TIME 1:00

AIR TEMP. 80°f

WELL DEPTH 51.75

CASING HEIGHT

WATER DEPTH 15.39

WELL DIAMETER

WATER COL. HEIGHT _____ ft

SANDPACK DIAM.

EQUIVALENT VOLUME OF STANDING WATER

PUMP RATE

PUMP TIME

WELL WENT DRY? () Yes (X) No

PUMP TIME 2.8

VOL. REMOVED _____ (gal) (L)

RECOVERY TIME

PURGE AGAIN? () Yes (X) No

TOTAL VOL. REMOVED

(gal)(L)

COMMENTS Collected sample at 1140.

SIGNATURE



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID MW10A
WELL/SITE DESCRIPTION _____

SAMPLE NO. 6-03-09-MW10A

DATE 3/10/09

TIME 945

AIR TEMP. 80°F

WELL DEPTH 43.0 ft
WATER DEPTH 25.0 ft
WATER COL. HEIGHT _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 0.5 (gpm) (lpm)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No
VOL REMOVED _____ (gal) (L)
PURGE AGAIN? () Yes (X) No
PUMP TIME 46 min
RECOVERY TIME _____ min
TOTAL VOL. REMOVED 32 (gal) (L)

Date	Time	Volume Removed	pH	mg/L Cond	°C Temp	ORP	NTU Turb	mg/L DO	Depth to Water from TOC	Pump Rate
3/10	954	~	6.87	0.778	28.36	9.2	800+	0.16	25.12	0.5
	958	2	6.96	0.782	28.43	7.4	800+	0.13	25.12	0.5
	1002	4	7.03	0.783	28.44	7.5	800+	0.14	25.12	0.5
	1006	6	7.07	0.784	28.46	9.1	872	0.12	25.12	0.5
✓	1010	8	7.07	0.784	28.46	5.1	709	0.10	25.12	0.5
	1014	10	7.05	0.785	28.47	7.5	519	0.10	25.12	0.5
	1018	12	7.03	0.786	28.47	11.8	396	0.10	25.12	0.5
	1022	14	6.98	0.788	28.46	12.5	297	0.10	25.12	0.5
	1026	16	6.80	0.788	28.46	22.6	164	0.09	25.12	0.5
	1030	18	6.79	0.789	28.46	25.4	98.7	0.09	25.12	0.5
	1034	20	6.77	0.789	28.51	37.5	62.7	0.10	25.12	0.5
	1038	22	6.79	0.789	28.51	35.2	42.2	0.10	25.12	0.5
	1042	24	6.79	0.790	28.49	42.1		0.09	25.12	0.5

COMMENTS Collected sample at 1045.

SIGNATURE My M A



15 Loveton Circle
Sparks, Maryland 21152

PURGING LOGBOOK FORM GROUNDWATER SAMPLES

WELL ID MW10B

WELL/SITE DESCRIPTION _____

SAMPLE NO. G-03-09-MW10B

DATE 3/10/09

TIME 840

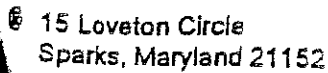
AIR TEMP. 80°F

WELL DEPTH 55.70 ft
WATER DEPTH 24.89 ft
WATER COL. HEIGHT _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ in
PUMP RATE _____ (gal) (L)
PUMP TIME 0.5 (gpm) (lpm)
WELL WENT DRY? () Yes (X) No
VOL. REMOVED _____ (gal) (L)
PURGE AGAIN? () Yes (X) No
0.5 gal
PUMP TIME 36 min
RECOVERY TIME _____ min
TOTAL VOL. REMOVED 20 (gal) (L)

Date	Time	L Volume Removed	pH	mg/L Cond	°C Temp	ORP	NTU Turb	mg/L DO	Depth to Water from TOC	L/min Pump Rate
3/10	852	—	7.17	0.686	27.81	-101.2	333	1.73	26.65	0.5
	856	2	7.15	0.681	27.94	-63.9	163	0.52	26.80	0.5
	900	4	7.20	0.673	27.96	-45.0	86.9	0.36	26.65	0.5
	904	6	7.08	0.685	27.99	-32.0	48.6	0.26	26.72	0.5
	908	8	7.06	0.689	28.01	-24.6	29.3	0.22	26.76	0.5
	912	10	7.05	0.693	28.05	-17.2	17.9	0.19	26.89	0.5
	916	12	6.99	0.697	28.09	-8.5	11.9	0.16	26.92	0.5
	920	14	6.98	0.699	28.08	-5.0	8.70	0.15	26.86	0.5
	924	16	6.97	0.701	28.10	-1.1	5.95	0.14	26.86	0.5
	928	18	6.96	0.703	28.13	-0.8	4.76	0.14	26.84	0.5

COMMENTS Collected sample at 930.

SIGNATURE My M An



**PURGING LOGBOOK FORM
GROUNDWATER SAMPLES**

SAMPLE NO. 6-03-07-nw144

AIR TEMP. 80°F

WELL DEPTH 46.45 ft
WATER DEPTH 8.02 ft
WATER COL. HEIGHT _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ in
PUMP RATE _____ (gal) (L)
PUMP TIME 1.0-0.5 (gpm) (lpm)
WELL WENT DRY? () Yes (X) No
VOL. REMOVED _____ (gal) (L)
PURGE AGAIN? () Yes (X) No
2 gal

CASING HEIGHT 3 ft
WELL DIAMETER 2 in
SANDPACK DIAM. _____ in
PUMP TIME 2.8 min
RECOVERY TIME _____ min
TOTAL VOL. REMOVED 24 (gal) (L)

COMMENTS Collected sample at 154B

by Mr. Lee

WELL PURGING AND SAMPLING RECORD

WELL ID MW25 SAMPLE NO. 6-03-09-MW25
WELL/SITE DESCRIPTION _____

DATE 3/11/09 TIME 1110 AIR TEMP. 80°F

WELL DEPTH 38.10 ft CASING HEIGHT 3 ft
WATER DEPTH 15.32 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 24 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 32 (gal) (L)

2 gal r

Date	Time	Volume Removed	pH	Cond. mg/L	Temp. °C	ORP	Turb. NTU	DO mg/L	Depth to Water from TOC	Pump Rate L/min
		Unit: L								
3/11	1024	—	6.52	0.745	26.97	98.9	1000+	0.32	15.49	1.0
	1028	4.0	6.52	0.755	26.83	85.0	166	0.22	15.49	1.0
	1132	8.0	6.52	0.763	26.78	84.4	79.3	0.16	15.49	1.0
	1136	12.0	6.55	0.766	26.78	64.1	45.3	0.15	15.49	1.0
	1140	16.0	6.52	0.767	26.78	52.3	26.5	0.13	15.49	1.0
	1144	20.0	6.51	0.770	26.80	38.3	17.8	0.11	15.49	1.0
	1148	24.0	6.51	0.771	26.84	37.2	9.5	0.11	15.49	1.0

COMMENTS Collected sample at 1150.

SIGNATURE [Signature]

WELL PURGING AND SAMPLING RECORD

WELL ID MW26 SAMPLE NO. 6-03-09-MW26
WELL/SITE DESCRIPTION _____

DATE 3/11/09 TIME 945 AIR TEMP. 80°F

WELL DEPTH 42.55 ft CASING HEIGHT 3 ft
WATER DEPTH 15.35 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 48 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 52 (gal) (L)

Date	Time	Volume Removed	pH	Cond. <u>mg/L</u>	Temp. <u>°C</u>	ORP	Turb. <u>NTU</u>	DO <u>mg/L</u>	Depth to Water from TOC	Pump Rate
		Unit:								<u>L/min</u>
3/11	1006	-	6.69	0.881	27.05	5.2	100+	0.11	15.57	1.0
	1010	4	6.64	0.884	27.14	27.8	392	0.14	15.55	1.0
	1014	8	6.59	0.888	27.29	46.0	336	0.11	15.55	1.0
	1018	12	6.56	0.891	27.37	44.8	239	0.10	15.55	1.0
	1022	16	6.56	0.894	27.44	63.0	208	0.10	15.55	1.0
	1026	20	6.63	0.894	27.32	34.4	140	0.08	15.55	1.0
	1030	24	6.63	0.895	27.41	21.0	109	0.08	15.55	1.0
	1034	28	6.61	0.899	27.52	2.7	78.8	0.07	15.55	1.0
	1038	32	6.63	0.898	27.26	-2.9	67.6	0.07	15.55	1.0
	1042	36	6.62	0.898	27.21	-14.7	41.9	0.08	15.55	1.0
	1046	40	6.58	0.899	27.10	-32.6	20.7	0.08	15.55	1.0
	1050	44	6.55	0.898	27.04	-40.5	19.4	0.07	15.55	1.0
	1054	48	6.54	0.899	27.01	-42.1	20.9	0.07	15.55	1.0

COMMENTS Collected sample at 1055.

SIGNATURE

[Signature]

WELL PURGING AND SAMPLING RECORD

WELL ID DP-1 SAMPLE NO. 6-03-09-DP-1
WELL/SITE DESCRIPTION _____

DATE 3/10/09 TIME 0830 AIR TEMP. 75°F

WELL DEPTH _____ ft CASING HEIGHT 2.5 ft
WATER DEPTH 12.20 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~33 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 44 (gal) (L)

3 gal +

Date	Time	Volume Removed Unit: (L)	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate L/min
3/10/09	0848	—	7.05	0.964	26.20	5.5	660	2.40	12.22	1.0
	0852	4	7.01	0.951	26.20	11.6	550	1.57	12.22	
	0856	8	7.00	0.951	26.20	29.8	291	0.75		
	0900	12	6.95	0.955	26.20	41.4	250	0.64		
	0904	16	6.97	0.959	26.29	46.8	137	0.54		
	0908	20	6.97	0.963	26.39	53.7	95	0.42		
	0912	24	6.97	0.967	26.41	58.9	36	0.30		
	0916	28	6.97	0.968	26.41	63	30	0.29		
	0920	32	6.97	0.968	26.41	65	30	0.28		

COMMENTS All good / stable. Would not clear completely. Sample Time = 0920

* Collected 09-MR-10-DP1 SIGNATURE William P. Lang

WELL PURGING AND SAMPLING RECORD

WELL ID OP-2 SAMPLE NO. G-03-09-OP-2
WELL/SITE DESCRIPTION _____

DATE 3/11/09 TIME 0930 AIR TEMP. 80°F

WELL DEPTH _____ ft CASING HEIGHT 3 ft
WATER DEPTH 2.34 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 40 (gal) (L)

39 gal

Date	Time	Volume Removed Unit: (L)	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate <u>4/101</u>
3/11/09	0912	—	6.96	1.416	25.71	66	550	1.26	2.42	1.0
	0916	4	6.95	1.429	25.77	44	450	1.18	2.40	
	0920	8	6.94	1.448	25.80	32	200	0.48		
	0924	12	6.94	1.459	25.74	32	108	0.34		
	0928	16	6.94	1.463	25.79	34	80	0.29		
	0932	20	6.94	1.469	25.80	34	50	0.21		
	0936	24	6.94	1.476	25.89	30	20	0.16		
	0940	28	6.94	1.470	25.85	30	10	0.12		

COMMENTS Transducer at well bottom. Could not retrieve.
All good / stable Sample Time = 0945

09-MR-11 - DRI Collected

SIGNATURE William P. Hays



WELL ID DP-5 SAMPLE NO. 6-03-07-DP-5
WELL/SITE DESCRIPTION _____

DATE 3/10/09 TIME 1100 AIR TEMP. 85°F

WELL DEPTH _____ ft CASING HEIGHT 26.5 ft
WATER DEPTH 9.30 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) **(LPM)**
PUMP TIME _____ min
WELL WENT DRY? () Yes (☒) No PUMP TIME ≈25 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (☒) No TOTAL VOL. REMOVED 32 (gal) **(L)**

[illegible]

COMMENTS

SIGNATURE

William R. Murray

WELL PURGING AND SAMPLING RECORD

WELL ID OP-4 SAMPLE NO. G-03-09-OP-4
WELL/SITE DESCRIPTION _____

DATE 3/10/09 TIME 1020 AIR TEMP. 80°F

WELL DEPTH _____ ft CASING HEIGHT 2.5 ft
WATER DEPTH 5.54 ft WELL DIAMETER _____ in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~25 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 32 (gal) (L)
2 gal +

Date	Time	Volume Removed Unit: (L)	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate L/min
3/10/09	1024	—	7.19	1.169	25.53	99.8	580	1.88	5.68	1.0
	1028	4	7.00	1.173	25.39	98.7	400	0.55	5.64	
	1032	8	6.95	1.194	25.43	97.9	380	0.44		
	1036	12	6.97	1.191	25.45	97.0	300	0.34		
	1040	16	6.97	1.188	25.46	96.1	280	0.28		
	1044	20	6.96	1.186	25.46	95.3	278	0.24		
✓	1048	24	6.96	1.185	25.47	95.2	275	0.25		

COMMENTS Sample Time = 1055

Slow to clear - all stable

SIGNATURE Vellam R. Khan

WELL PURGING AND SAMPLING RECORD

WELL ID OP-5 SAMPLE NO. 6-03-09-OP-5
WELL/SITE DESCRIPTION _____

DATE 3/10/09 TIME 0935 AIR TEMP. 80°F

WELL DEPTH _____ ft CASING HEIGHT 2.5 ft
WATER DEPTH 5.77 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (x) No PUMP TIME 30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~36 (gal) (L)

2 gal +

Date	Time	Volume Removed Unit: (L)	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate L/min
3/10/09	0942	—	7.06	0.889	27.03	94.3	71000	2.00	6.02	1.0
	0946	4	6.94	0.879	26.98	93.5	700	0.83	6.11	
	0950	8	6.93	0.868	27.00	93.4	300	0.145	6.08	
	0954	12	6.93	0.865	27.03	93.7	131	1.16	6.06	
	0958	16	6.91	0.864	27.05	94.5	80	1.03		
	1002	20	6.92	0.863	27.06	94.8	45	0.93		
	1006	24	6.93	0.864	27.07	94.5	21	0.95		
	1010	28	6.92	0.864	27.05	94.3	10	0.94		

COMMENTS Purged ~ 2 gal prior to reading to clear
Sample Time: 1010

SIGNATURE Walter Miller

WELL PURGING AND SAMPLING RECORD

WELL ID OP-6 SAMPLE NO. G-03-09-OP-6
WELL/SITE DESCRIPTION _____

DATE 3/10/09 TIME ~~1450~~ 1450 AIR TEMP. 85°F

WELL DEPTH _____ ft CASING HEIGHT _____ ft
WATER DEPTH 9.82 ft WELL DIAMETER _____ in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~30 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 48 (gal) (L)
5 gal +

Date	Time	Volume Removed Unit: (L)	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate L/min
3/10/09	1502	—	7.16	2.357	25.59	47	880	1.03	9.90	1.0
	1506	4	7.08	2.351	25.60	54	500	0.48	9.87	
	1510	8	7.03	2.358	25.65	63	307	0.70	9.85	
	1514	12	7.02	2.390	25.65	65	250	0.50		
	1516	16	7.02	2.369	25.64	68	85	0.38		
	1520	20	7.02	2.313	25.66	69	72	0.30		
	1524	24	7.02	2.371	25.68	70	50	0.27		
	1528	28	7.02	2.367	25.65	72	50	0.26		

COMMENTS Sample Time = 1530

SIGNATURE William J. Hance



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID OP-7 SAMPLE NO. 6-03-09-OP-7
WELL/SITE DESCRIPTION _____

DATE 3/10/09 TIME 1320 AIR TEMP. 85°F

WELL DEPTH _____ ft CASING HEIGHT 3 ft
WATER DEPTH 10.81 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 40 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 64 (gal) (L)

Date	Time	Volume Removed Unit: (L)	pH	Cond.	Temp.	ORP	Turb.	DO	Depth to Water from TOC	Pump Rate L/min
3/10/09	1342	—	6.72	4.88	25.73	-110	71000	0.63	10.92	1.0
	1346	4	6.72	4.879	25.72	-114	1000	0.46	10.90	
	1350	8	6.74	4.889	25.71	-114	700	0.97		
	1354	12	6.74	4.898	25.71	-114	552	0.64		
	1358	16	6.74	4.915	25.83	-112	310	0.35		
	1402	20	6.74	4.914	25.78	-111	189	0.25		
	1406	24	6.74	4.922	25.84	-109	120	0.22		
	1410	28	6.75	4.924	25.84	-108	102	0.19		
	1414	32	6.75	4.929	25.85	-107	80	0.19		
	1418	36	6.75	4.928	25.89	-107	80	0.17		

COMMENTS

Sample Time = 1420

Not completely
cleared. All stable.

SIGNATURE

William R. Hawley

Domingo Coll
71-644-7125



WELL ID CPR-75B SAMPLE NO. 6-03-09-CPR-75B
WELL/SITE DESCRIPTION _____

DATE 3 / 11 / 09 TIME 0950 AIR TEMP. 80°F

WELL DEPTH 55.5 ft CASING HEIGHT 2.5 ft
WATER DEPTH 1.81 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~~20~~ 25 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 36 ~~30~~ (gal) (L)

[illegible]

COMMENTS

Sample Time = 1030

All good/stable

SIGNATURE

William R. Roney

WELL PURGING AND SAMPLING RECORD

WELL ID CPR-83B1 SAMPLE NO. 6-03-09-CPR-83B1
WELL/SITE DESCRIPTION _____

DATE 3/11/09 TIME 1035 AIR TEMP. 80°F

WELL DEPTH 40.40 ft CASING HEIGHT 3 ft
WATER DEPTH 6.47 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME 24 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 24 (gal) (L)

[illegible]

COMMENTS

SIGNATURE

WELL PURGING AND SAMPLING RECORD

WELL ID CPR-83B2 SAMPLE NO. G-03-09-CPR-83B2
WELL/SITE DESCRIPTION _____

DATE 3, 11, 09 TIME 11201115 AIR TEMP. 80°F

WELL DEPTH 64.00 ft CASING HEIGHT 3 ft
WATER DEPTH 6.45 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (✓) No PUMP TIME ≈ 22 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (✓) No TOTAL VOL. REMOVED 28 (gal) (L)

[illegible]

COMMENTS

Sample Time = 1145

SIGNATURE

William Barry

WELL PURGING AND SAMPLING RECORD

WELL ID CPR-84B SAMPLE NO. 603-09-CPR-84B2
WELL/SITE DESCRIPTION _____

DATE 5/1/09 TIME 1340 AIR TEMP. 80°F

WELL DEPTH 55.40 ft CASING HEIGHT 2.5 ft
WATER DEPTH 5.13 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~25 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED ~32 (gal) (L)

[illegible]

COMMENTS

SIGNATURE



EA Engineering, Science,
and Technology, Inc.

WELL PURGING AND SAMPLING RECORD

WELL ID OP-7 SAMPLE NO. G-03-09-OP-7

QA/QC SAMPLES COLLECTED/DESIGNATION: _____

WELL/SITE DESCRIPTION: _____

DATE 4/14/09 TIME 1355 AIR TEMP. 85°F

WELL DEPTH 70 ft CASING HEIGHT 3 ft
 WATER DEPTH 11.10 ft WELL DIAMETER 2 in
 WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
 PUMP INTAKE DEPTH _____ ft
 EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
 PUMP RATE 1.0 (gpm) (LPM)
 PUMP TIME _____ min
 WELL WENT DRY? () Yes (X) No PUMP TIME 30 min
 VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
 PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 36 (gal) (L)

Date	Time	Volume Removed 2 gal Unit (L)	pH	Cond. mS/cm	Temp. °C	ORP	Turb.	DO mg/L	Depth to Water from TOC	Pump Rate L/min
4/14/09	1400	—	6.79	7.974	25.37	-68	280	3.19	11.16	1.0
	1404	4	6.75	7.983	25.41	-83	150	0.80	11.15	
	1409	8	6.75	7.999	25.38	-92	90	0.47		
	1412	12	6.75	8.007	25.41	-97	70	0.34		
	1416	16	6.75	8.010	25.41	-99	51	0.29		
	1420	20	6.75	8.016	25.41	-101	42	0.26		
	1424	24	6.75	8.020	25.42	-103	40	0.24		
	1428	28	6.75	8.021	25.41	-104	39	0.23		

COMMENTS No odor.

SIGNATURE William J. Hays



WELL ID OP-6 SAMPLE NO. 6-03-07-01-6
QA/QC SAMPLES COLLECTED/DESIGNATION: _____
WELL/SITE DESCRIPTION: _____

WELL DEPTH 75 ft CASING HEIGHT 3 ft
WATER DEPTH 10.08 ft WELL DIAMETER 2 in
WATER COL. HEIGHT _____ ft SANDPACK DIAM. _____ in
PUMP INTAKE DEPTH _____ ft
EQUIVALENT VOLUME OF STANDING WATER _____ (gal) (L)
PUMP RATE _____ 1.0 (gpm) (LPM)
PUMP TIME _____ min
WELL WENT DRY? () Yes (X) No PUMP TIME ~36 min
VOL. REMOVED _____ (gal) (L) RECOVERY TIME _____ min
PURGE AGAIN? () Yes (X) No TOTAL VOL. REMOVED 48 (gal) (L)

[illegible]

COMMENTS Sample Time = 1530

SIGNATURE William H. Hays